

# Drug Delivery System (DDS) Research Reagents

## Phospholipids

|   |            |         |  |            |         |
|---|------------|---------|--|------------|---------|
| <b>DMPC</b> (=1,2-Dimyristoyl-sn-glycero-3-phosphocholine)              | 200mg / 1g | [D3924] | <b>DSPG Sodium Salt</b> (= Dioctadecanoylphosphatidylglycerol Sodium Salt)       | 250mg      | [D5648] |
| <b>L-DPPC</b> (=1,2-Dipalmitoyl-sn-glycero-3-phosphocholine)            | 200mg / 1g | [D3925] | <b>DOPG Sodium Salt</b> (= Dioleoylphosphatidylglycerol Sodium Salt)             | 250mg      | [D5318] |
| <b>DSPC</b> (= 1,2-Distearoyl-sn-glycero-3-phosphocholine)              | 200mg / 1g | [D3926] | <b>POPG Sodium Salt</b> (= 1-Palmitoyl-2-oleoylphosphatidylglycerol Sodium Salt) | 250mg      | [P2522] |
| <b>DOPC</b> (= 1,2-Dioleoyl-sn-glycero-3-phosphocholine)                | 250mg / 1g | [D4250] | <b>1-Palmitoyl-sn-glycero-3-phosphocholine</b>                                   | 250mg      | [P2694] |
| <b>DEPC</b> (= 1,2-Dierucoyl-sn-glycero-3-phosphocholine)               | 250mg      | [D5319] | <b>1-Stearoyl-sn-glycero-3-phosphocholine</b>                                    | 250mg      | [T3808] |
| <b>L-DMPE</b> (= 1,2-Dimyristoyl-sn-glycero-3-phosphoethanolamine)      | 250mg      | [D4249] | <b>DOP-DEDA</b>  | 50mg       | [D6219] |
| <b>L-DPPE</b> (= 1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine)      | 250mg      | [D4213] | <b>Methyl-PEG2000-DSPE</b>   | 250mg      | [M3264] |
| <b>DSPE</b> (= 1,2-Distearoyl-sn-glycero-3-phosphoethanolamine)         | 250mg      | [D4214] | <b>MPEG2000-DSPE Sodium Salt</b>   | 100mg      | [M3330] |
| <b>DOPE</b> (= 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine)           | 250mg      | [D4251] | <b>DSPE-PEG(2000)-Amine Ammonium Salt</b>  | 10mg       | [D6011] |
| <b>DMPG Sodium Salt</b> (= Dimyristoylphosphatidylglycerol Sodium Salt) | 1g         | [D3946] | <b>Lecithin from Egg</b>   | 25g / 100g | [L0022] |
|   |            |         | <b>Lecithin from Soybean</b>   | 25g / 500g | [L0023] |

## Other Lipids

|                                 |              |         |   |         |         |
|---------------------------------|--------------|---------|---|---------|---------|
| <b>Cholesterol</b> (>99%)       | 1g / 5g      | [C3624] | <b>1-Octadecylguanidine Hydrochloride</b> | 1g / 5g | [O0600] |
| <b>DOTAP Methyl Sulfate</b>     | 100mg        | [D5953] | <b>Presome® ACD-1</b>                     | 100mg   | [P2807] |
| <b>D-Lin-MC<sub>3</sub>-DMA</b> | 50mg / 250mg | [H1786] |   |         |         |

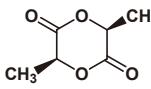
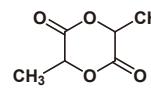
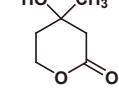
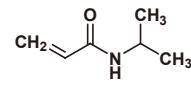
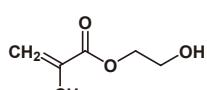
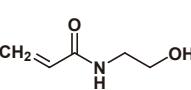
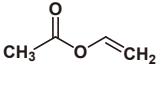
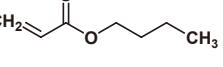
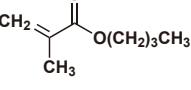
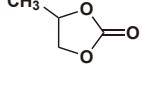
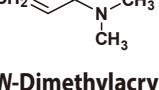
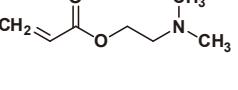
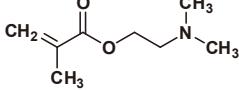
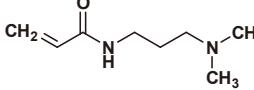
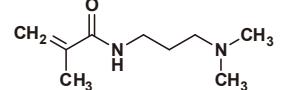
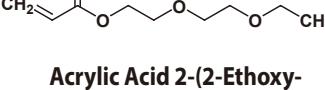
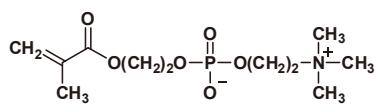
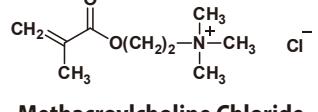
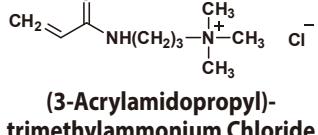
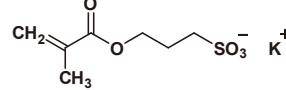
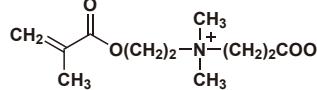
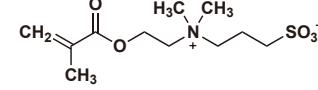
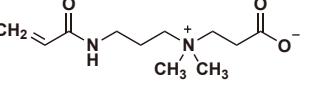
## Natural Polymers

|  |                   |         |   |                   |            |         |
|--|-------------------|---------|---|-------------------|------------|---------|
| <b>Hyaluronic Acid</b> from Cockscomb                                  | 1g                | [H0595] | <b>Methyl Cellulose</b>                       | (13-18mPa·s)      | 25g / 500g | [M0290] |
| <b>Hyaluronic Acid Sodium Salt</b> from Cockscomb                      | 100mg / 1g        | [H0603] |   | (20-30mPa·s)      | 25g / 500g | [M0291] |
| <b>Hyaluronic Acid Potassium Salt</b> from Cockscomb                   | 1g                | [H0652] |   | (80-120mPa·s)     | 25g / 500g | [M0292] |
| <b>Hyaluronic Acid</b> from Bacteria                                   | 1g                | [H1807] |   | (350-550mPa·s)    | 25g / 500g | [M0293] |
| <b>Hyaluronic Acid Sodium Salt</b> from Bacteria                       | 100mg / 1g        | [H1793] |   | (1000-1800mPa·s)  | 25g / 500g | [M0294] |
| <b>Hyaluronic Acid Potassium Salt</b> from Bacteria                    | 1g                | [H1808] |   | (3500-5600mPa·s)  | 25g / 500g | [M0185] |
| <b>Dermatan Sulfate Sodium Salt</b>                                    | 20mg / 100mg      | [D3672] |   | (7000-10000mPa·s) | 25g / 500g | [M0295] |
| <b>Chondroitin Sulfate Sodium Salt</b>                                 | 25g / 100g        | [C0335] | <b>Ethyl Cellulose</b>                        | (9-11mPa·s)       | 25g / 500g | [E0265] |
| <b>Heparin Sodium Salt</b> from Hog intestine                          | 100mg / 1g        | [H0393] |   | (18-22mPa·s)      | 25g / 500g | [E0072] |
| <b>Chitin</b>  | 25g / 250g        | [C0072] |   | (45-55mPa·s)      | 25g / 500g | [E0266] |
| <b>Chitosan</b> (5-20mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)          | 25g / 100g / 500g | [C2395] |   | (90-110mPa·s)     | 25g / 500g | [E0290] |
| <b>Chitosan</b> (20-100mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)        | 25g / 100g        | [C2396] | <b>Hydroxyethyl Cellulose</b>                 | (200-300mPa·s)    | 25g / 500g | [H0242] |
| <b>Chitosan</b> (200-600mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)       | 25g / 500g        | [C0831] |   | (800-1500mPa·s)   | 25g / 500g | [H0418] |
| <b>Alginic Acid</b>  | 25g / 500g        | [A0733] |   | (4500-6500mPa·s)  | 25g / 500g | [H0392] |
| <b>Alginic Acid Calcium Salt</b>                                       | 25g / 500g        | [A0738] | <b>Hydroxypropyl Cellulose</b>                | (3-6mPa·s)        | 25g / 500g | [H0473] |
| <b>Pectin</b> from Citrus  | 25g / 500g        | [P0024] |   | (6-10mPa·s)       | 25g / 500g | [H0474] |
| <b>λ-Carrageenan</b> (Low-viscosity)                                   | 1g / 5g           | [C2871] |   | (150-400mPa·s)    | 25g / 500g | [H0386] |
| <b>λ-Carrageenan</b> (High-viscosity)                                  | 25g / 500g        | [C3313] |   | (1000-4000mPa·s)  | 25g / 500g | [H0475] |
| <b>κ-Carrageenan</b>   | 25g / 500g        | [C1804] | <b>Carboxymethyl Cellulose Sodium Salt</b>    | n≈500             | 25g / 500g | [C0045] |
| <b>ι-Carrageenan</b>   | 25g / 500g        | [C1805] |   | n≈1050            | 25g / 500g | [C0603] |
| <b>Dextran 40</b> (Mw.=ca. 40000)                                      | 25g / 100g / 500g | [D1448] | <b>Dextrin</b>                                | 100g / 500g       | [D4657]    |         |
| <b>Dextran 70</b> (Mw.=ca. 70000)                                      | 25g / 100g / 500g | [D1449] | <b>Laminaran</b> from <i>Eisenia Bicyclis</i> | 1g / 25g          | [L0088]    |         |
| <b>Dextran Sulfate Sodium</b> from Dextran of <i>Mw. Approx. 8000</i>  | 25g               | [D5143] | <b>Pullulan</b>                               | 25g / 100g / 500g | [P0978]    |         |
| <b>Dextran Sulfate Sodium</b> from Dextran of <i>Mw. Approx. 40000</i> | 5g / 25g          | [D5144] |   |                   |            |         |
| <b>Carboxymethyldextran Sodium Salt</b> (Mw.=ca. 10000)                | 1g / 5g           | [C3250] |   |                   |            |         |
| <b>Carboxymethyldextran Sodium Salt</b> (Mw.=ca. 40000)                | 1g / 5g           | [C3251] |   |                   |            |         |

## Polyethyleneglycols (PEG)

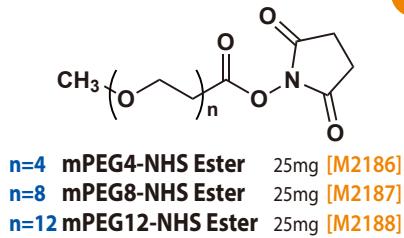
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|--------------------------|--------------------|---|---------------------|
| Polyethylene Glycol 200  | 25g / 500g [P0840] | Polyethylene Glycol Monomethyl Ether 220  | 100g / 500g [P3095] |
| Polyethylene Glycol 300  | 25g / 500g [H0543] | Polyethylene Glycol Monomethyl Ether 400  | 100g / 500g [P2183] |
| Polyethylene Glycol 400  | 25g / 500g [N0443] | Polyethylene Glycol Monomethyl Ether 550  | 100g / 500g [P2184] |
| Polyethylene Glycol 600  | 25g / 500g [P1187] | Polyethylene Glycol Monomethyl Ether 1000 | 100g / 500g [P2185] |
| Polyethylene Glycol 2000 | 25g / 500g [P2034] | Polyethylene Glycol Monomethyl Ether 2000 | 100g / 500g [P2186] |
| Polyethylene Glycol 4000 | 25g / 500g [P0885] | Polyethylene Glycol Monomethyl Ether 4000 | 100g / 500g [P2187] |
| Polyethylene Glycol 6000 | 25g / 500g [P0903] |   |                     |

## Monomers for Synthetic Polymers

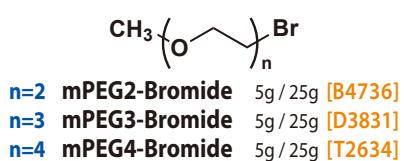
|   |   |   |   |   |   |
|---|---|---|---|---|---|
|    |    |          |     |    |  |
| L(-)-Lactide<br>25g / 250g<br>[L0115]   | DL-Lactide<br>25g / 100g<br>[L0091]   | DL-Mevalonolactone<br>100mg<br>[D0587]  | N-Isopropylacrylamide<br>25g / 100g / 500g<br>[I0401]                                 | 2-Hydroxyethyl Methacrylate<br>25g / 500g<br>[M0085]                                  | N-(2-Hydroxyethyl)-acrylamide<br>25g / 500g<br>[H1262]                              |
|    |    |          |     |    |  |
| gamma-Butyrolactone<br>25mL / 500mL<br>[B0767]                                      | delta-Valerolactone<br>25g / 100g / 500g<br>[V0039]                                 | epsilon-Caprolactone<br>25mL / 500mL<br>[C0702]   | Vinyl Acetate Monomer<br>500mL<br>[A0045]   | Butyl Acrylate<br>25mL / 500mL<br>[A0142]   | Butyl Methacrylate<br>25mL / 500mL<br>[M0081]                                       |
|  |  |        |  |  |   |
| Propylene Carbonate<br>25g / 500g<br>[P0525]  | Trimethylene Carbonate<br>5g / 25g<br>[D3821]                                       | 1-Vinyl-2-pyrrolidone<br>25mL / 500mL<br>[V0026]  | N,N-Dimethylacrylamide<br>25g / 500g<br>[D1091]                                       | Acrylic Acid 2-(Dimethylamino)ethyl Ester<br>25g / 100g / 500g<br>[A1235]             |   |
|  |  |       |  |   |   |
| Methacrylic Acid 2-(Dimethylamino)ethyl Ester<br>25mL / 100mL / 500mL<br>[M0082]    | N-[3-(Dimethylamino)propyl]acrylamide<br>25g / 100g / 500g<br>[D1785]               | N-(3-Dimethylaminopropyl)methacrylamide<br>25g / 100g / 500g<br>[D1919]                   | Acrylic Acid 2-(2-Ethoxyethoxy)ethyl Ester<br>25g / 500g<br>[E0652]                   |   |   |
|  |  |      |   |   |   |
| 2-Methacryloyloxyethyl Phosphorylcholine<br>1g / 5g / 25g<br>[M2005]                | (ca. 80% in Water)<br>25g / 500g<br>[M0918]   | (74-76% in Water)<br>25mL / 500mL<br>[A1493]  |   |   |   |
|  |  |       |  |   |   |
| Methacrylic Acid 3-Sulfopropyl Ester Potassium Salt<br>25g / 100g / 500g<br>[M1158] | 3-[(2-(Methacryloyloxy)ethyl)dimethylammonio]propionate<br>1g / 5g<br>[M2359]       | 3-[(2-(Methacryloyloxy)ethyl)dimethylammonio]propane-1-sulfonate<br>25g / 100g<br>[M1971] | 3-[(3-Acrylamidopropyl)dimethylammonio]propanoate<br>1g / 5g<br>[A3279]               |   |   |

# Drug Delivery System (DDS) Research Reagents

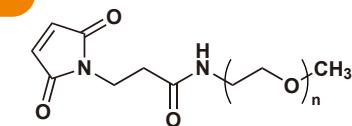
## PEGylation Reagents



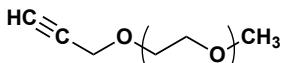
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|---|---|
| <br><b>mPEG<sub>n</sub>-Amine</b>                   | <br><b>mPEG12-Maleimide</b>                           |
| <small>n=4 mPEG4-Amine 100mg [M2501]</small>        | <small>n=12 mPEG12-Maleimide 25mg [M3051]</small>     |
| <small>n=8 mPEG8-Amine 50mg / 250mg [O0457]</small> | <small>n=24 mPEG24-Amine 25mg / 100mg [M3048]</small> |



|   |  |
|---|--|
| <br><b>mPEG<sub>n</sub>-Azide</b>                     | <br><b>mPEG4-Alkyne</b>                              |
| <small>n=4 mPEG4-Azide 25mg / 100mg [A2728]</small>   | <small>n=4 mPEG4-Alkyne 25mg / 100mg [P2249]</small> |
| <small>n=8 mPEG8-Azide 25mg / 100mg [A2727]</small>   |  |
| <small>n=12 mPEG12-Azide 25mg [M3049]</small>         |  |
| <small>n=24 mPEG24-Azide 25mg / 100mg [M3050]</small> |  |

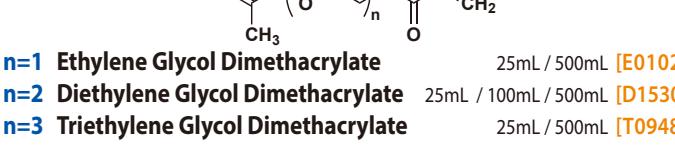
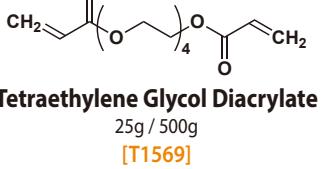
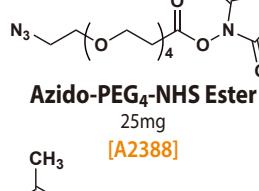
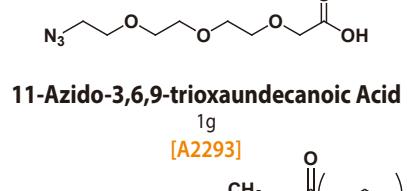
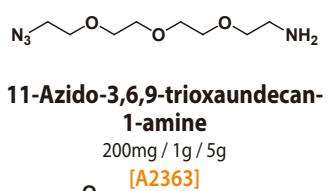
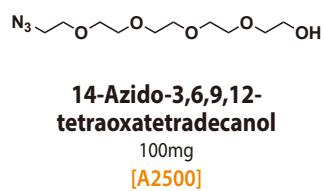
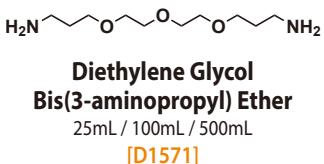
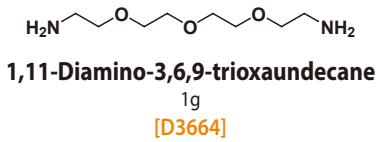
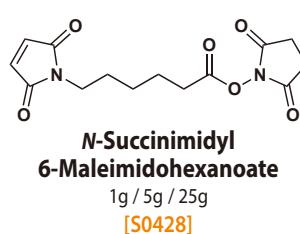
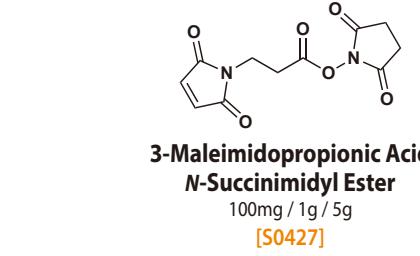
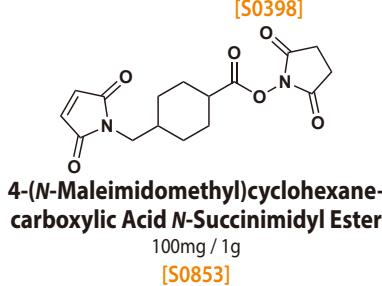
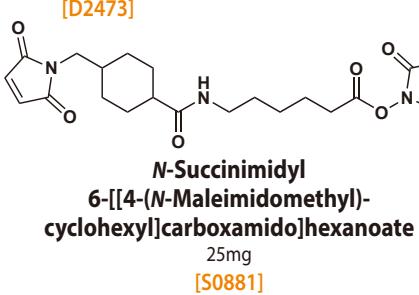
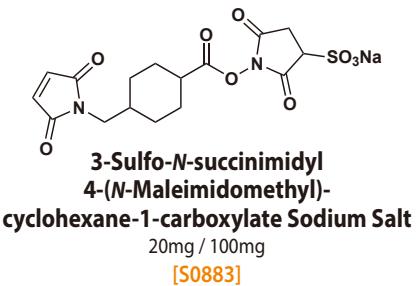
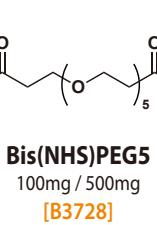
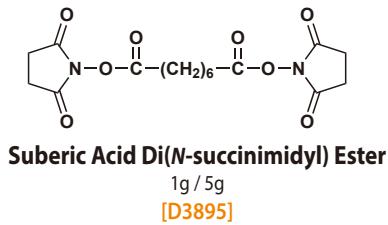


**n=12 mPEG12-Maleimide 25mg [M3051]**  
**n=24 mPEG24-Maleimide 25mg [M3052]**



100mg [T3199]

## Cross-Linkers



# Drug Delivery System (DDS) Research Reagents

## Synthetic Polymers

**ULTROXA® Poly(2-methyl-2-oxazoline)** (n=approx. 100)

200mg [P2506]

500mg [P2507]

200mg [P2508]

**ULTROXA® Poly(2-ethyl-2-oxazoline)** (n=approx. 100)

25g / 100g / 500g [P0471]

25g / 500g [P0472]

25g / 500g [P0473]

25g / 500g [P0381]

**ULTRON® Poly(2-propyl-2-oxazoline)** (n=approx. 100)

25g / 500g [P0471]

**Polyvinylpyrrolidone K 15** Average Molecular Wt. 10,000

25g / 500g [P0472]

**Polyvinylpyrrolidone K 30** Average Molecular Wt. 40,000

25g / 500g [P0473]

**Polyvinylpyrrolidone K 90** Average Molecular Wt. 360,000

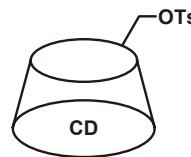
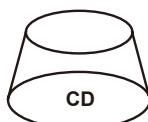
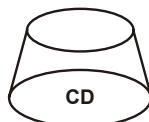
25g / 500g [P0381]

**Polyethyleneimine** (ca. 30% in Water)

1mL / 10mL [L0466]

**Linear Polyethyleneimine Hydrochloride [1mg/mL in PBS(-)]**

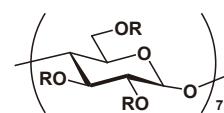
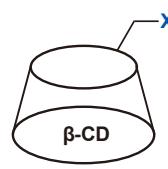
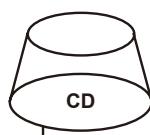
## Cyclodextrins



**α-Cyclodextrin** 10g / 25g / 100g [C0776]  
**β-Cyclodextrin** 25g / 100g [C0777]  
**γ-Cyclodextrin** 5g / 25g / 100g [C0869]

**Mono-2-O-(*p*-toluenesulfonyl)-  
α-cyclodextrin** 200mg [M1956]  
**β-cyclodextrin** 200mg [M1741]

**Mono-6-O-(*p*-toluenesulfonyl)-  
α-cyclodextrin** 200mg / 1g [M1644]  
**β-cyclodextrin** 1g [M3398]  
**γ-cyclodextrin** 200mg [M1645]



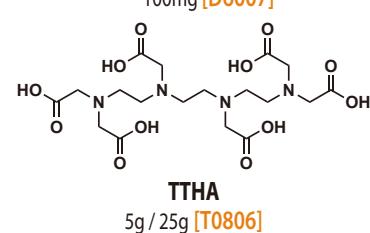
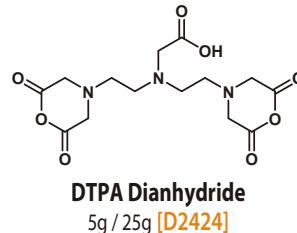
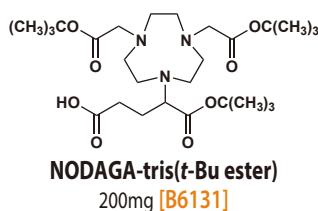
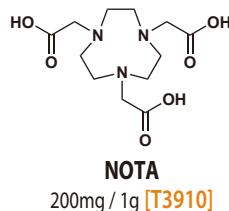
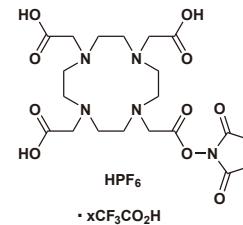
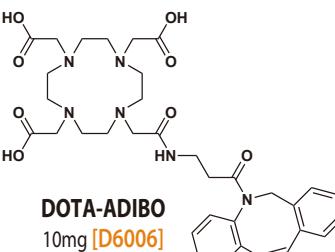
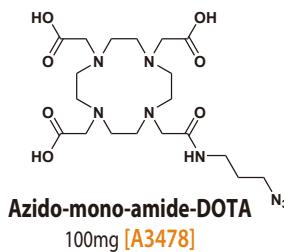
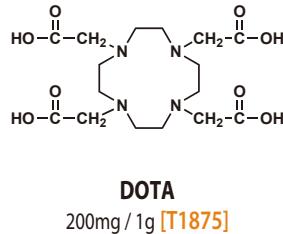
**3A-Amino-3A-deoxy-(2AS,3AS)-  
α-cyclodextrin** 200mg / 1g [A2122]  
**β-cyclodextrin** 200mg [A3512]

**X=N<sub>3</sub>**  
**6A-Azido-6A-deoxy-β-cyclodextrin** 1g [A3454]

**X=NH<sub>2</sub>**  
**6A-Amino-6A-deoxy-β-cyclodextrin** 1g [A3453]

**Methyl-β-cyclodextrin** (mixture of several Methylated) 25g / 250g [M1356]  
**Trimethyl-β-cyclodextrin** 1g [T1094]  
**Hydroxypropyl-β-cyclodextrin** 25g / 100g [H0979]

## Chelating Agents



For Laboratory Use, Research Purposes Only.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com). ►►► TCI DDS



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