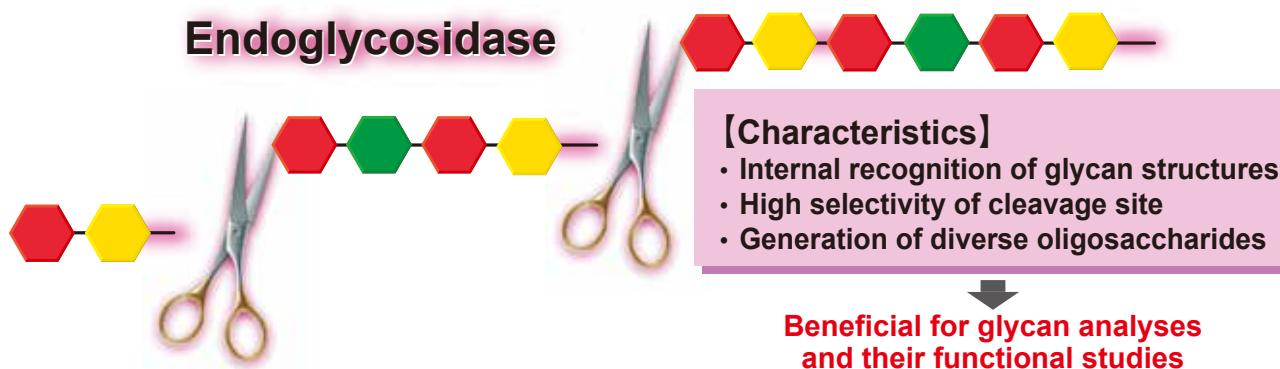


# endo -type Glycohydrolytic Enzymes Endoglycosidases



Endoglycosidases uniquely recognize specific internal structures of glycan chains and effectively cut out diverse oligosaccharide units by a single enzyme. In contrast to exoglycosidases that degrade glycan chains into monosaccharides from non-reducing terminal through multiple enzyme types. As recombinant enzymes, our products have been utilized in large-scale applications. These are available to various applications such as glycan analyses and functional studies.

## ENGase which cleaves non-corefucosylated N-glycans (Specificity: High-mannose-type and biantennary complex-type N-glycan)

**Endo-M** (= *endo*- $\beta$ -N-Acetylglucosaminidase) 100mUnits/vial [A1651]  
Recombinant: from *Mucor hiemalis*

## ENGase which cleaves corefucosylated N-glycans (Specificity: High-mannose-type and biantennary complex-type N-glycan)

**Endo-M-W251N** 500mUnits/vial [E1339]  
Recombinant (mutant): from *Mucor hiemalis*

## ENGase which transfers non-corefucosylated N-glycans (Specificity: High-mannose-type and biantennary complex-type N-glycan)

**Glycosynthase** (= Endo-M-N175Q) 100mUnits/vial [G0365]  
Recombinant (mutant): from *Mucor hiemalis*

## O-Glycanase which cleaves core1 O-glycan (Specificity: Core1, T antigen, TF antigen)

**O-Glycosidase for core 1 Endo- $\alpha$  & Sialidase** 100mUnits/vial [G0622]  
***endo*- $\alpha$ -N-Acetylgalactosaminidase** (= Endo- $\alpha$ ) 100mUnits/vial [A1844]  
Recombinant: from *Bifidobacterium longum*

## EGCase which cleaves glycolipids (Specificity: Glycosphingolipid)

**rEGCase I** 300mUnits/vial [R0240]  
Recombinant: from *Rhodococcus equi*

**rEGCase I assisted by Activator II** 300mUnits/vial [R0241]  
Recombinant: from *Rhodococcus equi*

**rEGCase II** 100mUnits/vial [R0242]  
Recombinant: from *Rhodococcus sp.*

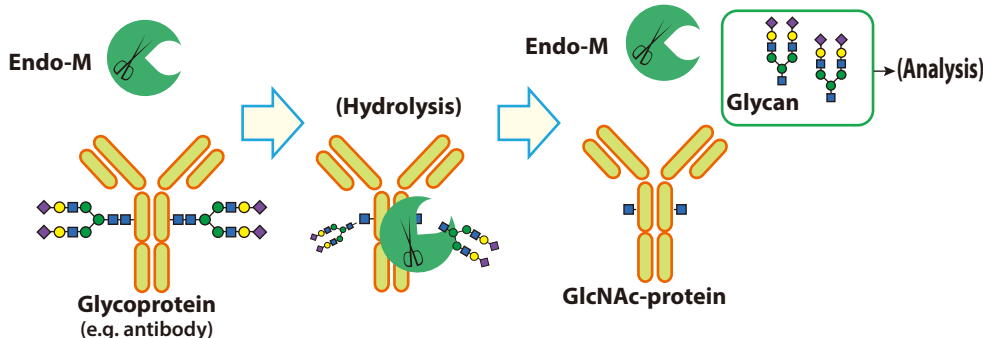
**rEGCase II assisted by Activator II** 100mUnits/vial [R0243]  
Recombinant: from *Rhodococcus sp.*

## GAGase which cleaves polysaccharide (Specificity: Keratan sulfate)

**Keratanase II** 1.0Units/vial [K0069]  
Recombinant: from *Bacillus circulans*

# endo-type Glycohydrolytic Enzymes: Endoglycosidases

## ENGase which cleaves non-corefucosylated N-glycans (Specificity: High-mannose-type and biantennary complex-type N-glycan)



**Endo-M** [A1651]

[for N-glycan (non core-fucosyl biantennary)]

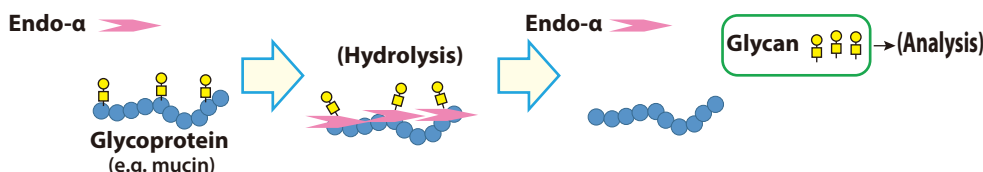
**Endo-M W251N** [E1339]

[for N-glycan (core-fucosyl biantennary)]

**Glycosynthase** [G0365]

[for transglycosylation]

## O-Glycanase which cleaves core1 O-glycan (Specificity: Core1, T antigen, TF antigen)



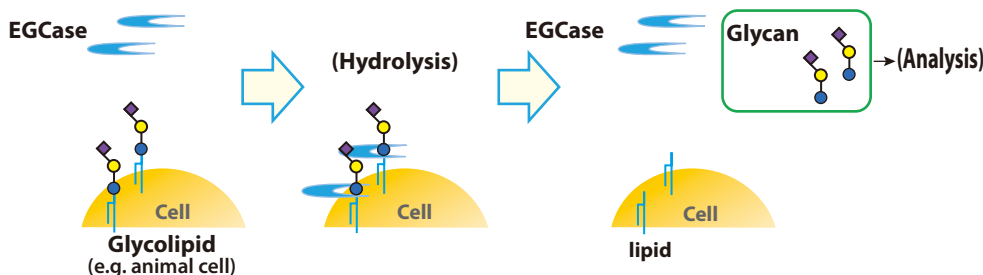
**O-Glycosidase** [G0622]

[for O-glycan (Core1, T antigen)]

**Endo-α** [A1844]

[for O-glycan (Core1, T antigen)]

## EGCase which cleaves glycolipids (Specificity: Glycosphingolipid)



**rEGCase I** [R0240]

[for glycolipid]

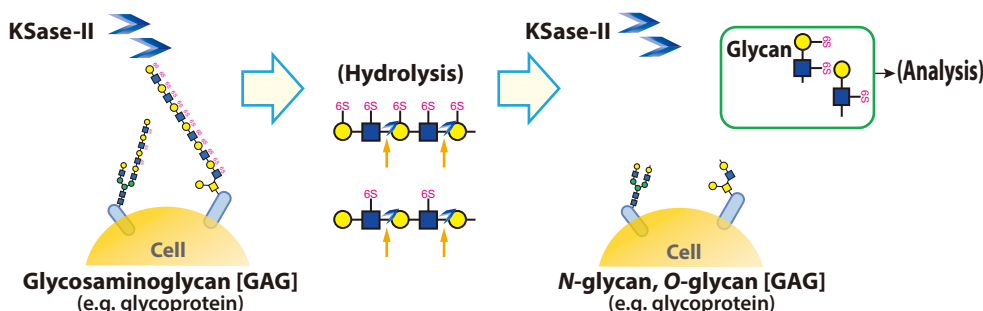
**rEGCase I assisted by Activator II** [R0241]

[for detergent-free cell study]

**rEGCase II** [R0242]

**rEGCase II assisted by Activator II** [R0243]

## GAGase which cleaves polysaccharide (Specificity: Keratan sulfate)



**Keratanase II** [K0069]

[for glycosaminoglycan (Keratan sulfate)]

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R0240, R0241, R0242 and R0243 were commercialized under license from Kyushu University.

K0069 were commercialized under license from Kansai Medical University.

## Related Products: Other glyco-related enzymes

### Sialidase from *Arthrobacter ureafaciens* Sialidase (Neuraminidase) Agarose

1.0Units/vial [I1205]  
(0.1 mL gel)/vial [I1206]

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