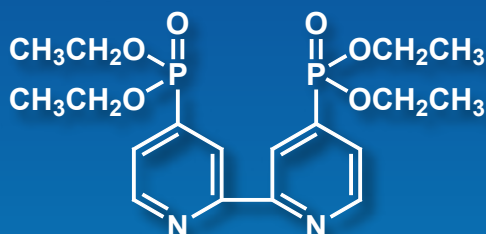
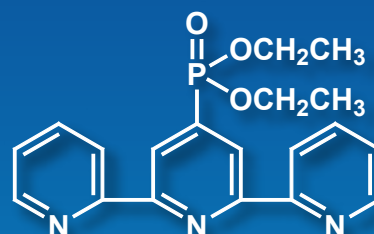


Bipyridine/Terpyridine Ligands Bearing Phosphonate Ester Moieties



Tetraethyl 2,2'-Bipyridine-4,4'-bisphosphonate

1g / 5g
[B6518] **New**



Diethyl 2,2':6',2''-Terpyridine-4'-phosphonate

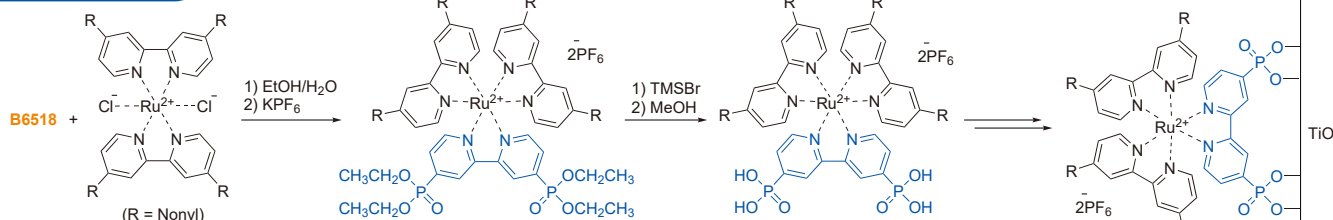
200mg
[D4511]

Advantages

- Forming complexes with metals such as ruthenium, rhenium, and platinum results in immobilized catalysts like photosensitizers for solar cells,¹⁾ photocatalysts for water splitting and CO₂ fixation,^{2,3)} and electrode modifiers.
- Easy handling of metal complex intermediates due to the ethyl group-protected phosphonic acid moieties.

Application

Synthesis of Photosensitizer¹⁾



- References
- 1) I. Purnama, Y. Kubo, J. Y. Mulyana, *Inorganica Chim. Acta* **2018**, 471, 467. <https://doi.org/10.1016/j.ica.2017.11.052>
 - 2) S. Amthor, S. Rau, et al., *Eur. J. Inorg. Chem.* **2021**, 46, 4790. <https://doi.org/10.1002/ejic.202100656>
 - 3) L. Francàs, Dr. A. Llobet, et al., *Chem. Eur. J.* **2016**, 15, 5261. <https://doi.org/10.1002/chem.201504015>

Related Products

Bis(tetrabutylammonium) Dihydrogen Bis(isothiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II)

Bis(isothiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II)	100mg	[B3514]
Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)(4,4'-dinonyl-2,2'-bipyridyl)ruthenium(II)	200mg	[B4372]
Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)(4,4'-dinonyl-2,2'-bipyridyl)ruthenium(II) Sodium Salt	200mg	[B4373]
2,2'-Bipyridine-6,6'-dicarboxylic Acid	200mg	[B4432]
2,2'-Bipyridine-5,5'-dicarboxylic Acid	1g / 5g	[B3533]
2,2'-Bipyridine-4,4'-dicarboxylic Acid	1g / 5g	[B3502]
2,2'-Bipyridine-4,4'-dicarboxylic Acid Dimethyl Ester	100mg / 1g	[B1876]
2,2'-Bipyridine-3,3'-dicarboxylic Acid	1g / 5g	[D4635]
2,2'-Bicinchoninic Acid	1g	[B3622]
2,2'-Bicinchoninic Acid Dipotassium Salt	1g / 5g	[B3509]
Bathophenanthrolinedisulfonic Acid Disodium Salt Hydrate	1g / 5g	[B1077]
Disodium Bathocuproinedisulfonate	1g	[B0989]
Trimethyl 2,2':6',2''-Terpyridine-4,4',4''-tricarboxylate	100mg / 1g	[B0985]
	200mg	[T2959]

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