

MBS Crosslinker

Chemical Properties

CAS No.:	58626-38-3
Formula:	C ₁₅ H ₁₀ N ₂ O ₆
Molecular Weight:	314.25
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	MBS crosslinker is a non-cleavable, water-insoluble, heterobifunctional protein crosslinking reagent. The MBS protein crosslinker extended spacer arm analog is SMPB crosslinker SATA Protein Modifier can be used to add sulfhydryl groups to proteins or peptides prior to MBS crosslinking.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.182 mL	15.911 mL	31.822 mL
5 mM	0.636 mL	3.182 mL	6.364 mL
10 mM	0.318 mL	1.591 mL	3.182 mL
50 mM	0.064 mL	0.318 mL	0.636 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Hansen PR. Peptide-Carrier Conjugation. *Methods Mol Biol.* 2015;1348:51-7. doi: 10.1007/978-1-4939-2999-3_6. PubMed PMID: 26424262.
- Xue X, Li D, Yu J, Ma G, Su Z, Hu T. Phenyl linker-induced dense PEG conformation improves the efficacy of C-terminally monoPEGylated staphylokinase. *Biomacromolecules.* 2013 Feb 11;14(2):331-41. doi: 10.1021/bm301511w. Epub 2013 Jan 18. PubMed PMID: 23301655.
- Söllner T, Rassow J, Wiedmann M, Schlossmann J, Keil P, Neupert W, Pfanner N. Mapping of the protein import machinery in the mitochondrial outer membrane by crosslinking of translocation intermediates. *Nature.* 1992 Jan 2;355(6355):84-7. PubMed PMID: 1530986.
- Kühn-Hölsken E, Lenz C, Dickmanns A, Hsiao HH, Richter FM, Kastner B, Ficner R, Urlaub H. Mapping the binding site of snurportin 1 on native U1 snRNP by cross-linking and mass spectrometry. *Nucleic Acids Res.* 2010 Sep;38(16):5581-93. doi: 10.1093/nar/gkq272. Epub 2010 Apr 26. PubMed PMID: 20421206; PubMed Central PMCID: PMC2938196.

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