

Methyltetrazine-amine HCl salt

Chemical Properties

CAS No.:	1345955-28-3
Formula:	C ₁₀ H ₁₁ N ₅
Molecular Weight:	201.23
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Methyltetrazine-amine HCl salt possesses substantially improved stability compared to hydrogen substituted Tetrazine-Amine and can be used in a wider range of chemical transformations with superior stability, it enables long-term storage in aqueous buffers.
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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	4.969 mL	24.847 mL	49.694 mL
5 mM	0.994 mL	4.969 mL	9.939 mL
10 mM	0.497 mL	2.485 mL	4.969 mL
50 mM	0.099 mL	0.497 mL	0.994 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

1. Sano K, Nakajima T, Miyazaki K, Ohuchi Y, Ikegami T, Choyke PL, Kobayashi H. Short PEG-linkers improve the performance of targeted, activatable monoclonal antibody-indocyanine green optical imaging probes. *Bioconjug Chem.* 2013 May 15;24(5):811-6. doi: 10.1021/bc400050k. Epub 2013 May 3. PubMed PMID: 23600922; PubMed Central PMCID: PMC3674550.
2. Harrison E, Coulter JA, Dixon D. Gold nanoparticle surface functionalization: mixed monolayer versus hetero bifunctional peg linker. *Nanomedicine (Lond).* 2016 Apr;11(7):851-65. Review. PubMed PMID: 27021417.
3. Augusto MT, Hollmann A, Porotto M, Moscona A, Santos NC. Antiviral Lipopeptide-Cell Membrane Interaction Is Influenced by PEG Linker Length. *Molecules.* 2017 Jul 15;22(7). pii: E1190. doi: 10.3390/molecules22071190. PubMed PMID: 28714870; PubMed Central PMCID: PMC5776016.
4. Tuma R, Russell M, Rosendahl M, Thomas GJ Jr. Solution conformation of the extracellular domain of the human tumor necrosis factor receptor probed by Raman and UV-resonance Raman spectroscopy: structural effects of an engineered PEG linker. *Biochemistry.* 1995 Nov 21;34(46):15150-6. PubMed PMID: 7578129.

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