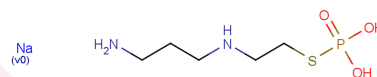


Amifostine sodium

Chemical Properties

CAS No. :	59178-37-9
Formula:	C ₅ H ₁₅ N ₂ NaO ₃ PS
Molecular Weight:	237.21
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Amifostine sodium is a phosphorothioate proposed as a radiation-protective agent. It causes splenic vasodilation and may block autonomic ganglia.
Targets(IC50)	Others,HIF/HIF Prolyl-Hydroxylase,MDM-2/p53

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2157 mL	21.0784 mL	42.1567 mL
5 mM	0.8431 mL	4.2157 mL	8.4313 mL
10 mM	0.4216 mL	2.1078 mL	4.2157 mL
50 mM	0.0843 mL	0.4216 mL	0.8431 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Jačević V, Dragojević-Simić V, Tatomirović Ž, Dobrić S, Bokonjić D, Kovačević A, Nepovimova E, Vališ M, Kuča K. The Efficacy of Amifostine against Multiple-Dose Doxorubicin-Induced Toxicity in Rats. *Int J Mol Sci.* 2018 Aug 12;19(8). pii: E2370. doi: 10.3390/ijms19082370. PubMed PMID: 30103540.
- Sueishi Y, Nii R. Monoterpene's multiple free radical scavenging capacity as compared with the radioprotective agent cysteamine and amifostine. *Bioorg Med Chem Lett.* 2018 Aug 2. pii: S0960-894X(18)30652-8. doi: 10.1016/j.bmcl.2018.08.003. [Epub ahead of print] PubMed PMID: 30098868.

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