

## Amifostine trihydrate

## Chemical Properties

CAS No. :	112901-68-5
Formula:	C <sub>5</sub> H <sub>21</sub> N <sub>2</sub> O <sub>6</sub> PS
Molecular Weight:	268.269
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Amifostine trihydrate (WR2721) is the first approved radioprotective drug, used to decrease the risk of kidney problems caused by treatment with cisplatin.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,MDM-2/p53

## Solubility Information

Solubility	DMSO: Insoluble, H <sub>2</sub> O: 72.14 mg/mL (268.91 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7276 mL	18.6379 mL	37.2759 mL
5 mM	0.7455 mL	3.7276 mL	7.4552 mL
10 mM	0.3728 mL	1.8638 mL	3.7276 mL
50 mM	0.0746 mL	0.3728 mL	0.7455 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

- Tas S, Ozkul F, Arik MK, Kiraz A, Vural A. Acta Cir Bras. 2016 Mar;31(3):156-60.  
Yang X, Ding Y, Ji T, Zhao X, Wang H, Zhao X, Zhao R, Wei J, Qi S, Nie G. Biochem Pharmacol. 2016 Mar 2. pii: S202006-2952(16)2020113-1.

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