



LKT Laboratories, Inc.

Amifostine Trihydrate

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Product Information

Product ID A4933

CAS No. 112901-68-5

Chemical Name Ethanethiol, 2-((3-aminopropyl)amino)-, dihydrogen phosphate (ester), trihydrate

Synonym Ethiofos, Gammaphos, SAPEP, Ethyol

Formula C₅H₁₅N₂O₃PS • 3H₂O

Formula Wt. 268.27

Melting Point 160-161 °C

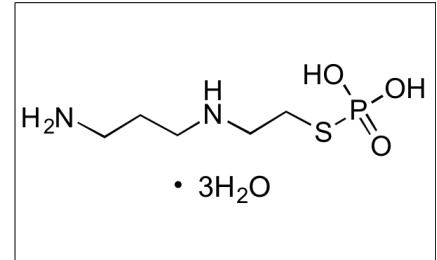
Purity ≥98%

Solubility Soluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Amifostine is a thiol prodrug that exhibits antioxidative activity. Amifostine is co-administered with chemotherapeutics to detoxify their metabolites and scavenge for free radicals, protecting normal tissue and DNA against chemotherapy- or radiation-induced damage.



Bulk quantities available upon request

Product ID	Size
A4933	50 mg
A4933	100 mg
A4933	500 mg

References Chen C, Tian L, Zhang M, et al. Protective effect of amifostine on high-dose methotrexate-induced small intestinal mucositis in mice. *Dig Dis Sci*. 2013 Nov;58(11):3134-43. PMID: 23979434.

Lv W, Zhang M, Zhang Z, et al. Amifostine acts upon mitochondria to stimulate growth of bone marrow and regulate cytokines. *Adv Exp Med Biol*. 2013;789:195-201. PMID: 23852495.

Wozniak K, Gloc E, Morawiec Z, et al. Amifostine can differentially modulate DNA double-strand breaks and apoptosis induced by idarubicin in normal and cancer cells. *Exp Oncol*. 2008 Mar;30(1):22-8. PMID: 18438337.

Kouvaris JR, Kouloulis VE, Vlahos LJ. Amifostine: the first selective-target and broad-spectrum radioprotector. *Oncologist*. 2007 Jun;12(6):738-47. PMID: 17602063.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.