

## Certificate of Analysis

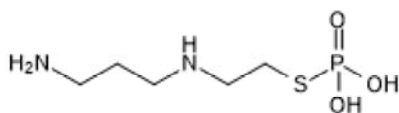
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**Product Name:** Amifostine  
**CAS Number:** 20537-88-6  
**IUPAC Name:** 2-[(3-Aminopropyl)amino]ethanethiol dihydrogen phosphate

**Catalog No.:** 6655      **Batch No.:** 2

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>5</sub>H<sub>15</sub>N<sub>2</sub>O<sub>3</sub>PS.2<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O  
**Batch Molecular Weight:** 263.76  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	22.77	7.83	10.62
Found	22.41	7.98	10.44

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**  
 info@bio-techne.com  
 techsupport@bio-techne.com

**North America**  
 Tel: (800) 343 7475

**China**  
 info.cn@bio-techne.com  
 Tel: +86 (21) 52380373

**Europe Middle East Africa**  
 Tel: +44 (0)1235 529449

**Rest of World**  
[www.tocris.com/distributors](http://www.tocris.com/distributors)  
 Tel:+1 612 379 2956

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**Catalog No.:** 6655

**Batch No.:** 2

CAS Number: 20537-88-6

IUPAC Name: 2-[(3-Aminopropyl)amino]ethanethiol dihydrogen phosphate

**Description:**

Cytoprotectant against chemotherapy and radiotherapy. Reduces mitochondrial pyruvate use in hepatocytes but not hepatoma cells *in vitro*. Also inhibits angiogenesis. Active metabolite is also available, WR 1065 (Cat. No. 3356)

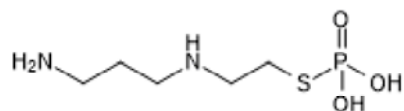
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>5</sub>H<sub>15</sub>N<sub>2</sub>O<sub>3</sub>PS.2<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 263.76

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Koukourakis *et al*** (2016) Normal tissue radioprotection by AmiF. via Warburg-type effects. *Sci.Rep.* **6**. PMID: 27507219.

**Giannopoulou *et al*** (2003) AmiF. inhibits angiogenesis *in vivo*. *J.Pharmacol.Exp.Ther.* **304** 729. PMID: 12538828.

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