

Certificate of Analysis

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Product Name: PRIMA-1

Catalog No.: 1862

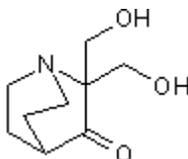
Batch No.: 4

CAS Number: 5608-24-2

IUPAC Name: 2,2-Bis(hydroxymethyl)-1-azabicyclo[2.2.2]octan-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₅NO₃
Batch Molecular Weight: 185.22
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol + NH₄OH [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.36	8.16	7.56
Found	58.34	8.17	7.46

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

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Description:

Selectively restores mutant p53 activity in tumor cells via activation of Bax and PUMA. Induces apoptosis and inhibits growth of tumors with mutant p53.

Physical and Chemical Properties:

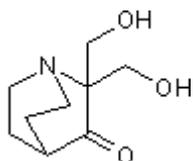
Batch Molecular Formula: C₉H₁₅NO₃

Batch Molecular Weight: 185.22

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline 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:

Wang et al (2007) PRIMA-1 induces apoptosis by inhibiting JNK signalling but promoting the activation of Bax. *Biochem.Biophys.Res.Commun.* **352** 203. PMID: 17113036.

Bykov et al (2002) Restoration of the tumour suppressor function to mutant p53 by a low-molecular-weight compound. *Nat.Med.* **8** 282. PMID: 11875500.

Bykov et al (2002) Mutant p53-dependent growth suppression distinguishes PRIMA-1 from known anticancer drugs: a statistical analysis of information in the National Cancer Institute database. *Carcinogenesis* **23** 2011. PMID: 12507923.

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