

## Certificate of Analysis

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**Product Name:** PRIMA-1<sup>MET</sup>

**Catalog No.:** 3710

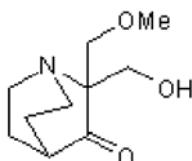
**Batch No.:** 6

CAS Number: 5291-32-7

IUPAC Name: 2-(Hydroxymethyl)-2-(methoxymethyl)-1-azabicyclo[2.2.2]octan-3-one

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>10</sub>H<sub>17</sub>NO<sub>3</sub>.  
**Batch Molecular Weight:** 199.25  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.4 (DCM/MeOH (9:1))  
**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.28  | 8.6      | 7.03     |
| Found       | 60.28  | 8.66     | 6.83     |

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

**Product Name:** PRIMA-1<sup>MET</sup>

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**Batch No.:** 6

CAS Number: 5291-32-7

IUPAC Name: 2-(Hydroxymethyl)-2-(methoxymethyl)-1-azabicyclo[2.2.2]octan-3-one

**Description:**

Methylated derivative of PRIMA-1 (Cat. No. 1862). Restores mutant activity p53 activity. Acts synergistically with chemotherapeutic agents to inhibit tumor cell proliferation.

**Physical and Chemical Properties:**

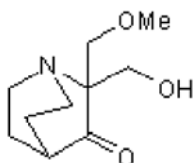
Batch Molecular Formula: C<sub>10</sub>H<sub>17</sub>NO<sub>3</sub>.

Batch Molecular Weight: 199.25

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO 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:**

**Stuber et al** (2009) PRIMA-1<sup>MET</sup> induces nucleolar translocation of Epstein-Barr virus-encoded EBNA-5 protein. *Mol.Cancer* **8** 23. PMID: 19323829.

**Shen et al** (2008) PRIMA-1<sup>MET</sup> induces mitochondrial apoptosis through activation of caspase-2. *Oncogene* **27** 6571. PMID: 18663359.

**Bykov et al** (2005) PRIMA-1<sup>MET</sup> synergizes with cisplatin to induce tumor cell apoptosis. *Oncogene* **24** 3484. PMID: 15735745.

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