



## Product Information

### Ribonucleotide reductase inhibitor, Triapine, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM590

**Size:** 10 mg; 25 mg; 50 mg; 100 mg

**MDL:** MFCD00924747

**CAS Number:** 200933-27-3

**Compound CID:** 9571836

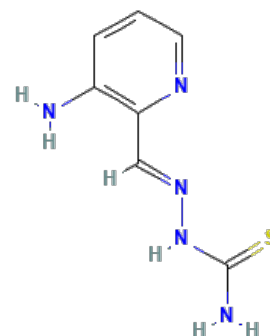
**Synonym:** 200933-27-3; 3-AP;

2-((3-Aminopyridin-2-yl)methylene)hydrazinecarbothioamide; PAN-811;

3-Aminopyridine-2-carboxaldehyde thiosemicarbazone;

[(E)-(3-Aminopyridin-2-yl)methylideneamino]thiourea; Ribonucleotide reductase inhibitor

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	Triapine, soluble in DMSO and insoluble in water and ethanol, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting ribonucleotide reductase. The molecular weight of the compound is 195.24, and its molecular formula is C <sub>7</sub> H <sub>9</sub> N <sub>5</sub> S.
<b>Molecular Weight</b>	195.24
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>9</sub> N <sub>5</sub> S
<b>IUPAC Name</b>	[(E)-(3-Aminopyridin-2-yl)methylideneamino]thiourea
<b>InChI</b>	InChI=1S/C7H9N5S/c8-5-2-1-3-10-6(5)4-11-12-7(9)13/h1-4H,8H2,(H3,9,12,13)/b11-4+
<b>InChI Key</b>	XMYKNCNAZKMVQN-NYYWCZLTSA-N
<b>Canonical SMILES</b>	C1=CC(=C(N=C1)C=NNC(=S)N)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: 17 mg/mL (87.07 mM); Water: insoluble; Ethanol: insoluble; <i>In vivo</i> : 5% DMSO + 40% PEG300 + 5% Tween80 + 50% ddH <sub>2</sub> O, 1.18 mg/mL
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade



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**Applications**

Triapine plays a key role in disrupting DNA synthesis in rapidly dividing tumor cells.

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**Storage**

Store at -20°C, and keep desiccated.

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