



Product Information

Ribonucleotide reductase inhibitor, Triapine, Purity ≥98%

Cat. No.: X24-09-YM590

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

MDL: MFCD00924747

CAS Number: 200933-27-3

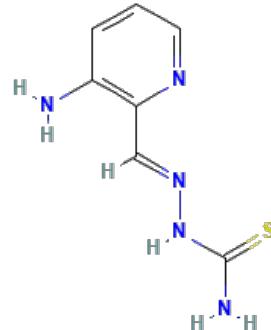
Compound CID: 9571836

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

Description	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 ₇ H ₉ N ₅ S.
Molecular Weight	195.24
Molecular Formula	C ₇ H ₉ N ₅ S
IUPAC Name	[(E)-(3-Aminopyridin-2-yl)methylideneamino]thiourea
InChI	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+
InChI Key	XMYKNCNAZKMQVN-NYYWCZLTSAN
Canonical SMILES	C1=CC(=C(N=C1)C=NNC(=S)N)N
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<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 ₂ O, 1.18 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade



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

Storage Store at -20°C, and keep desiccated.
