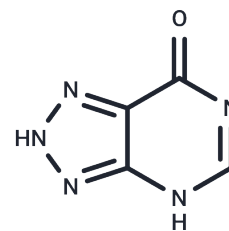


## 8-Azahypoxanthine

## Chemical Properties

CAS No. :	2683-90-1
Formula:	C <sub>4</sub> H <sub>3</sub> N <sub>5</sub> O
Molecular Weight:	137.1
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	8-Azahypoxanthine (NSC-22709) inhibits hypoxanthine-guanine-xanthine phosphoribosyltransferase and has antimalarial properties.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others,DNA/RNA Synthesis
In vitro	8-Azahypoxanthine has a slight radiosensitizing effect on haemopoietic stem cells and leucotic cells[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (401.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (14.59 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	7.2939 mL	36.4697 mL	72.9395 mL
5 mM	1.4588 mL	7.2939 mL	14.5879 mL
10 mM	0.7294 mL	3.647 mL	7.2939 mL
50 mM	0.1459 mL	0.7294 mL	1.4588 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Volchkov VA, Mikhaïlova NIa. Radiomodifitsiruiushchee deïstvie 8-azagipoksantina [Radiomodifying action of 8-azahypoxanthine]. Radiobiologiya. 1984 Jan-Feb;24(1):90-2. Russian.

Keough DT, et al. Lead compounds for antimalarial chemotherapy: purine base analogs discriminate between human and *P. falciparum* 6-oxopurine phosphoribosyltransferases. *J Med Chem*. 2006 Dec 14;49(25):7479-86.

Moore BC, Leigh JA. Markerless mutagenesis in *Methanococcus maripaludis* demonstrates roles for alanine dehydrogenase, alanine racemase, and alanine permease. *J Bacteriol*. 2005 Feb;187(3):972-9.

Groom J, et al. Promiscuous plasmid replication in thermophiles: Use of a novel hyperthermophilic replicon for genetic manipulation of *Clostridium thermocellum* at its optimum growth temperature. *Metab Eng Commun*. 2016 Jan 29;3:30-38.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481