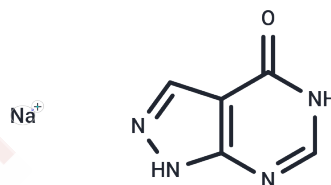


Allopurinol Sodium

Chemical Properties

CAS No. :	17795-21-0
Formula:	C ₅ H ₄ N ₄ NaO
Molecular Weight:	159.1
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Allopurinol Sodium is a xanthine oxidase inhibitor with an IC ₅₀ of 7.82±0.12 μM.
Targets(IC ₅₀)	ROS,Xanthine Oxidase
In vitro	EOL-1, human acute myeloid eosinophilic leukemia cell line, was antiproliferative by BI-9564 with EC ₅₀ of 800 nM. BRD7 implied as a tumor suppressor and is down-regulated in cancer cells, BI-9564 shows K _d of 73 nM for it, and is >10-fold more selective for BRD9 over the high homologues bromodomain. BI-9564 (5 μM) shows no activity against 324 kinases, when BI-9564 at 10 μM, an inhibition >40% is observed for only 2 out of 55 GPCRs.

Solubility Information

Solubility	DMSO: 30 mg/mL (188.56 mM), Sonication is recommended. Ethanol: 2 mg/mL (12.57 mM), Sonication is recommended. H ₂ O: 29 mg/mL (182.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.2854 mL	31.4268 mL	62.8536 mL
5 mM	1.2571 mL	6.2854 mL	12.5707 mL
10 mM	0.6285 mL	3.1427 mL	6.2854 mL
50 mM	0.1257 mL	0.6285 mL	1.2571 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

Mitsuboshi S, et al. J Pharm Health Care Sci. 2015 Oct 6;1:28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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