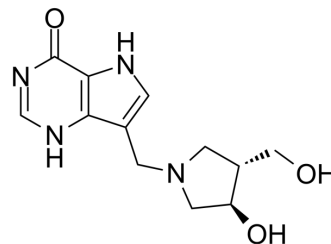


Ulodesine

Cat. No.:	HY-19480		
CAS No.:	548486-59-5		
Molecular Formula:	C ₁₂ H ₁₆ N ₄ O ₃		
Molecular Weight:	264.28		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (94.60 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7839 mL	18.9193 mL	37.8387 mL
	5 mM	0.7568 mL	3.7839 mL	7.5677 mL
	10 mM	0.3784 mL	1.8919 mL	3.7839 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (3.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (3.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (3.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ulodesine is a purine nucleoside phosphorylase (PNP) inhibitor. Ulodesine inhibits PNP with IC₅₀ value of 2.293 nM/L. Ulodesine can be used for the research of hyporucicemia^{[1][2]}.

In Vivo

Ulodesine (i.v.) potently inhibits PNP with IC₅₀ value of 2.293 nM/L^[1].
Ulodesine (i.v.) eliminates uric acid accumulations in blood of the mouse model^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Xujuan YANG, et al. Establishment of a novel hyperuricemia animal model using mice and assessment of hyperuricemia action of PNP inhibitor Ulodesine.
- [2]. Cesar Diaz-Torné, et al. New medications in development for the treatment of hyperuricemia of gout. *Curr Opin Rheumatol.* 2015 Mar;27(2):164-9.
-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA