

4-Deoxypyridoxine hydrochloride

Chemical Properties

CAS No. :	148-51-6
Formula:	C ₈ H ₁₂ ClNO ₂
Molecular Weight:	189.639
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	4-Deoxypyridoxine (hydrochloride) inhibits the degradation of intracellular S1P by inhibiting S1P lyase (SPL) activity, minimized the chemically induced apoptosis of insulinoma cell lines as S1P did.
Targets(IC50)	S1P Receptor

Solubility Information

Solubility	DMSO: 100.00 mg/mL (527.32 mM),Sonication is recommended. H ₂ O: 100.00 mg/mL (527.32 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: 3.30 mg/mL (17.40 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	5.2731 mL	26.3657 mL	52.7315 mL
5 mM	1.0546 mL	5.2731 mL	10.5463 mL
10 mM	0.5273 mL	2.6366 mL	5.2731 mL
50 mM	0.1055 mL	0.5273 mL	1.0546 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

Lee H, et al. 4-Deoxypyridoxine improves the viability of isolated pancreatic islets ex vivo. *Islets*. 2013 May-Jun;5 (3):116-21.

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