Data Sheet (Cat.No.T5141)

TargetMol

L-2-Phosphoglyceric acid disodium salt hydrate

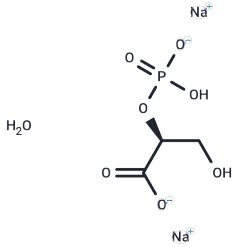
Chemical Properties

CAS No. :

Formula: C3H5Na2O7P · xH2O

Molecular Weight: 230.02

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	L-2-Phosphoglyceric acid disodium salt is a glyceric acid which serves as the substrate in glycolysis. It is catalyzed by enolase into phosphoenolpyruvate.
Targets(IC50)	Others
In vivo	SRT1720 (10, 30, 100 mg/kg, p.o.) significantly reduces the hyperinsulinemia after 4 weeks, partially normalizing elevated insulin levels similar to rosiglitazone treatment. SRT1720 treatment significantly reduces fasting blood glucose to near normal levels in Lepob/ob mice[1]. SRT1720 has the ability to protect against the negative effects of diet-induced obesity in mice and has a connection to metabolic adaptation in fatty acid and oxidative metabolism through downstream targets of SIRT1 such as PGC1α and FOXO1 [2]. SRT1720 (50-100 mg/kg, p.o.), during emphysema development, attenuates elastase-induced airspace enlargement and lung function impairment as well as reduces arterial oxygen saturation in WT mice [3].

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3474 mL	21.7372 mL	43.4745 mL
5 mM	0.8695 mL	4.3474 mL	8.6949 mL
10 mM	0.4347 mL	2.1737 mL	4.3474 mL
50 mM	0.0869 mL	0.4347 mL	0.8695 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

Reed GH, et al. Structural and mechanistic studies of enolase. Curr Opin Struct Biol. 1996 Dec;6(6):736-43.