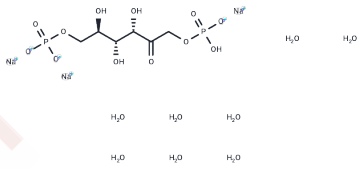
Data Sheet (Cat.No.T37984)

TargetMol

Fosfructose, sodium salt, hydrate (1:3:8)

Chemical Properties



CAS No. : 81028-91-3

Formula: C6H27Na3O20P2

Molecular Weight: 550.18

Storage: Store at low temperature
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	D-Fructose-1,6-bisphosphate sodium salt hydrate is the intermediate in carbohydrate metabolism, including glycolysis and gluconeogenesis. During glycolysis, it is produced by phosphorylation of fructose-6-phosphate by phosphofructokinase. The reverse reaction mediated by fructose-1, 6-diphosphatase-1 is one of the rate-limiting steps of gluconeogenesis. The same reaction occurs in the chloroplasts of plants, D-Fructose-1,6-bisphosphate sodium salt hydrate as part of the reducing pentose phosphate cycle. Since cancer cells use glycolysis as a primary source of metabolic energy production, this pathway has become a major target for cancer chemotherapy.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) PBS (pH 7.2): 10 mg/mL (18.18 mM),Sonication is recommended. H2O: 115 mg/mL (209.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8176 mL	9.0879 mL	18.1759 mL
5 mM	0.3635 mL	1.8176 mL	3.6352 mL
10 mM	0.1818 mL	0.9088 mL	1.8176 mL
50 mM	0.0364 mL	0.1818 mL	0.3635 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

Wang DS, et al. Establishment and evaluation of a rabbit model of arterial thrombosis by collagen encapsulated thread-drawing. Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2008;33(11):993-998.