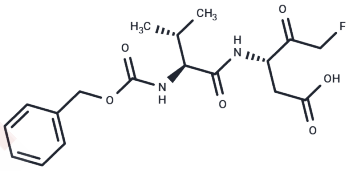
Data Sheet (Cat.No.T11210)

TargetMol

EP1013

Chemical Properties



CAS No. : 223568-55-6

Formula: C18H23FN2O6

Molecular Weight: 382.38

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	EP1013 is a broad-spectrum selective inhibitor of Caspase used in the study of type 1 diabetes.
Targets(IC50)	Caspase
In vivo	EP1013 therapy significantly improves the functionality and longevity of syngeneic islet grafts by enhancing the islet mass's performance. Administering EP1013 at dosages of 1, 3, and 10 mg/kg results in noticeable improvements in the function of marginal islet mass. Despite two cases of primary islet graft nonfunction in the 10 mg/kg EP1013 treatment group, the overall rate of diabetes reversal among this group does not significantly differ from those treated with 3 mg/kg EP1013, 1 mg/kg EP1013, or 10 mg/kg zVAD.

Solubility Information

Solubility	DMSO: 60 mg/mL (156.91 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: 2.5 mg/mL (6.54 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6152 mL	13.076 mL	26.152 mL
5 mM	0.523 mL	2.6152 mL	5.2304 mL
10 mM	0.2615 mL	1.3076 mL	2.6152 mL
50 mM	0.0523 mL	0.2615 mL	0.523 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

Emamaullee JA, et al. The caspase selective inhibitor EP1013 augments human islet graft function and longevity in marginal mass islet transplantation in mice. Diabetes. 2008 Jun;57(6):1556-66.