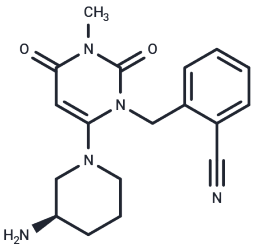
Data Sheet (Cat.No.T6192)

TargetMol

Alogliptin

Chemical Properties



CAS No. : 850649-61-5

Formula: C18H21N5O2

Molecular Weight: 339.39

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	Alogliptin (SYR-322)(SYR-322) is a potent, selective inhibitor of DPP-4 with IC50 of <10 nM, exhibits greater than 10, 000-fold selectivity over DPP-8 and DPP-9.
Targets(IC50)	Ferroptosis,Proteasome,DPP-4

Solubility Information

Solubility	DMSO: 68 mg/mL (200.36 mM),Sonication is recommended. H2O: 13.51 mg/mL (39.81 mM),Sonication is recommended. Ethanol: 60 mg/mL (176.79 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 mg/mL (5.89 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	2.9465 mL	14.7323 mL	29.4646 mL
5 mM	0.5893 mL	2.9465 mL	5.8929 mL
10 mM	0.2946 mL	1.4732 mL	2.9465 mL
50 mM	0.0589 mL	0.2946 mL	0.5893 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

Feng J, et al. J Med Chem, 2007, 50(10), 2297-2300.
Asakawa T, et al. Life Sci, 2009, 85(3-4), 122-126.

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