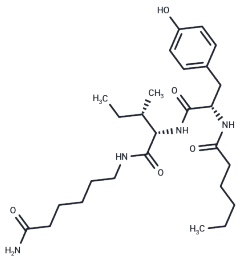
Data Sheet (Cat.No.T7376)

TargetMol

Dihexa

Chemical Properties



CAS No. : 1401708-83-5

Formula: C27H44N4O5

Molecular Weight: 504.66

Storage: Keep away from moisture
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	Dihexa (Hexanoyl-Tyr-Ile-Ahx-NH2) is an activator of the hepatocyte growth factor/c-Met (HGF/c-Met) system,it binds to HGF (Kd = 65 pM),and an analog of the peptide angiotensin IV.
Targets(IC50)	c-Met/HGFR
In vivo	Dihexa (2 mg/kg, i.p.) completely reverses scopolamine-induced learning deficits in the latency to find the platform and increases the time spent in the target quadrant in the Morris water maze in rats[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (495.38 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 (3.96 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	1.9815 mL	9.9077 mL	19.8153 mL
5 mM	0.3963 mL	1.9815 mL	3.9631 mL
10 mM	0.1982 mL	0.9908 mL	1.9815 mL
50 mM	0.0396 mL	0.1982 mL	0.3963 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

Mccoy A T , Benoist C C , Wright J W , et al. Evaluation of Metabolically Stabilized Angiotensin IV Analogs as Procognitive/Antidementia Agents[J]. Journal of Pharmacology and Experimental Therapeutics, 2013, 344(1):141-154.

Benoist C C , Kawas L H , Zhu M , et al. The Procognitive and Synaptogenic Effects of Angiotensin IV-Derived Peptides Are Dependent on Activation of the Hepatocyte Growth Factor/c-Met System[J]. Journal of Pharmacology and Experimental Therapeutics, 2014, 351(2):390-402.