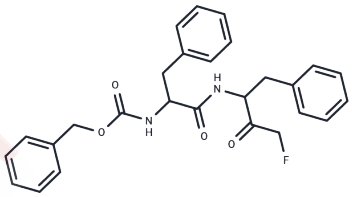
Data Sheet (Cat.No.T38469)

TargetMol

(Rac)-Z-Phe-Phe-FMK

Chemical Properties



CAS No. : 108005-94-3

Formula: C27H27FN2O4

Molecular Weight: 462.51

Storage: Keep away from direct sunlight,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	(Rac)-Z-Phe-Phe-FMK (Cathepsin L-IN-2) is a cathepsin L inhibitor that inhibits the tendency of β-amyloid to induce apoptotic changes .
Targets(IC50)	Beta Amyloid,Cysteine Protease

Solubility Information

Solubility	DMSO: 30 mg/mL (64.86 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: 1 mg/mL (2.16 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	2.1621 mL	10.8106 mL	21.6212 mL
5 mM	0.4324 mL	2.1621 mL	4.3242 mL
10 mM	0.2162 mL	1.0811 mL	2.1621 mL
50 mM	0.0432 mL	0.2162 mL	0.4324 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

Jonathan Frew, et al. Premature termination codon readthrough upregulates progranulin expression and improves lysosomal function in preclinical models of GRN deficiency. Mol Neurodegener. 2020 Mar 16;15(1):21.
Kirsi Ravanko, et al. Cysteine cathepsins are central contributors of invasion by cultured adenosylmethionine decarboxylase-transformed rodent fibroblasts. Cancer Res. 2004 Dec 15;64(24):8831-8.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481