

DPP-IV-IN-2

Chemical Properties

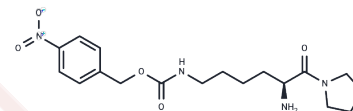
CAS No. : 136259-18-2

Formula: C₁₈H₂₆N₄O₅

Molecular Weight: 378.42

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	DPP-IV-IN-2 (H-Lys(4-nitro-Z)-pyrrolidide) is an inhibitor of both DP8/9 and dipeptidyl peptidase IV (IC ₅₀ s: 0.1 and 0.95 μM).
Targets(IC ₅₀)	Proteasome,DPP-4

Solubility Information

Solubility	DMSO: 100 mg/mL (264.26 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.21 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6426 mL	13.2128 mL	26.4257 mL
5 mM	0.5285 mL	2.6426 mL	5.2851 mL
10 mM	0.2643 mL	1.3213 mL	2.6426 mL
50 mM	0.0529 mL	0.2643 mL	0.5285 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

Ansorge S, et al. Novel aspects of cellular action of dipeptidyl peptidase IV/CD26. Biol Chem. 2011 Mar;392(3):153-68.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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