

HFI-142

## Chemical Properties

CAS No. : 332164-34-8

Formula: C17H16N2O4

Molecular Weight: 312.32

Store at low temperature

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	HFI-142 is a small-molecule inhibitor that binds specifically to the active site of aminopeptidase N and suppresses its enzymatic activity. HFI-142 has been demonstrated to inhibit leukotriene A4 biosynthesis in red blood cells, an effect that may offer therapeutic potential for the research in cancer by modulating inflammatory and metabolic pathways implicated in tumor growth and progression. HFI-142 was also shown to inhibit the activity of additional aminopeptidases, including aminopeptidase N, as well as other enzymes associated with protein metabolism.
Targets(IC50)	Others,Aminopeptidase

## Solubility Information

Solubility	DMSO: 100 mg/mL (320.18 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: 4 mg/mL (12.81 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.2018 mL	16.0092 mL	32.0184 mL
5 mM	0.6404 mL	3.2018 mL	6.4037 mL
10 mM	0.3202 mL	1.6009 mL	3.2018 mL
50 mM	0.064 mL	0.3202 mL	0.6404 mL

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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

Albiston AL, et al. Phenylalanine-544 plays a key role in substrate and inhibitor binding by providing a hydrophobic packing point at the active site of insulin-regulated aminopeptidase. *Mol Pharmacol.* 2010 Oct;78(4): 600-7.

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