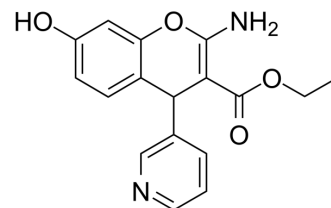


HFI-142

Cat. No.:	HY-110259		
CAS No.:	332164-34-8		
Molecular Formula:	C ₁₇ H ₁₆ N ₂ O ₄		
Molecular Weight:	312		
Target:	Aminopeptidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (400.64 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>3.2051 mL</td> <td>16.0256 mL</td> <td>32.0513 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.6410 mL</td> <td>3.2051 mL</td> <td>6.4103 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.3205 mL</td> <td>1.6026 mL</td> <td>3.2051 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		3.2051 mL	16.0256 mL	32.0513 mL	5 mM		0.6410 mL	3.2051 mL	6.4103 mL	10 mM		0.3205 mL	1.6026 mL	3.2051 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.67 mM); Clear solution																													
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.67 mM); Clear solution																													
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.67 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	HFI-142 is an insulin-regulated aminopeptidase (IRAP) inhibitor with a K _i of 2.01 μM ^[1] .
IC ₅₀ & Target	Ki: 2.01 μM (Insulin-regulated aminopeptidase) ^[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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