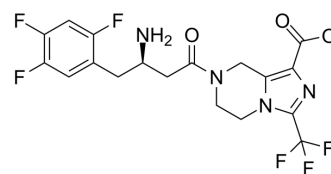


## Retagliptin

<b>Cat. No.:</b>	HY-112668A		
<b>CAS No.:</b>	1174122-54-3		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> F <sub>6</sub> N <sub>4</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	464.36		
<b>Target:</b>	Dipeptidyl Peptidase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (215.35 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.1535 mL	10.7675 mL	21.5350 mL
	<b>5 mM</b>	0.4307 mL	2.1535 mL	4.3070 mL
	<b>10 mM</b>	0.2154 mL	1.0768 mL	2.1535 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Retagliptin (SP2086) is a selective, competitive and orally active dipeptidyl peptidase-4 (DPP-4) inhibitor. Retagliptin can be used for type 2 diabetes mellitus (T2DM) research <sup>[1]</sup> .
<b>In Vitro</b>	Retagliptin is a class of compound used for research of type 2 diabetes. Retagliptin inhibits the degradation of GLP-1, thus amplifying the incretin effect <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Avivit Cahn, et al. An update on DPP-4 inhibitors in the management of type 2 diabetes. Expert Opin Emerg Drugs. 2016 Dec;21(4):409-419.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA