



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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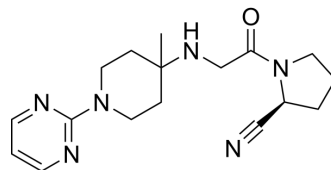
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K579

Cat. No.:	HY-103433
CAS No.:	440100-64-1
Molecular Formula:	C ₁₇ H ₂₄ N ₆ O
Molecular Weight:	328.41
Target:	Dipeptidyl Peptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (76.12 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.0450 mL</td> <td>15.2249 mL</td> <td>30.4497 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6090 mL</td> <td>3.0450 mL</td> <td>6.0899 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3045 mL</td> <td>1.5225 mL</td> <td>3.0450 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.0450 mL	15.2249 mL	30.4497 mL	5 mM	0.6090 mL	3.0450 mL	6.0899 mL	10 mM	0.3045 mL	1.5225 mL	3.0450 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.61 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.61 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	K579 is a potent and orally active dipeptidyl peptidase IV inhibitor. K579 inhibits the blood glucose elevation. K579 increases the plasma insulin and active forms of glucagon-like peptide-1 (GLP-1). K579 has the potential for the research of diabetic ^[1] .
IC₅₀ & Target	DPP-4

REFERENCES

[1]. Takasaki K, et al. K579, a slow-binding inhibitor of dipeptidyl peptidase IV, is a long-acting hypoglycemic agent. Eur J Pharmacol. 2004 Feb 23;486(3):335-42.

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

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