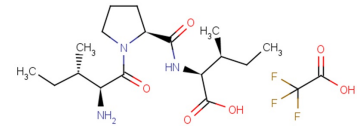


## Data Sheet (Cat.No.T11049)

### Diprotin A TFA

#### Chemical Properties

CAS No.:	209248-71-5
Formula:	C <sub>19</sub> H <sub>32</sub> F <sub>3</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	455.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



#### Biological Description

Description	Diprotin A (TFA) is an inhibitor of dipeptidyl peptidase IV (DPP-IV).
Targets(IC <sub>50</sub> )	Others: None
In vitro	Diprotin A can increase the phosphorylation of Src and vascular endothelial cadherin (VE-cadherin) in human endothelial cells and destroy the connection between endothelial cells, which can be blocked by CXCR4 (SDF-1 $\alpha$ receptor) or Src inhibitor Weaken.
In vivo	Diprotin A collectively induces vascular leakage by increasing the SDF-1 $\alpha$ /CXCR4/Src/VE-cadherin signaling pathway. In the model of retinopathy of prematurity, Diprotin A will not only increase retinal blood vessels, but also increase leakage. In addition, in the murine model of diabetic retinopathy, bupstatin A increases the phosphorylation of Src and VE-cadherin and aggravates retinal vascular leakage.

#### Solubility Information

Solubility	H <sub>2</sub> O: 77.5 mg/mL (170.15 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.196 mL	10.978 mL	21.955 mL
5 mM	0.439 mL	2.196 mL	4.391 mL
10 mM	0.22 mL	1.098 mL	2.196 mL
50 mM	0.044 mL	0.22 mL	0.439 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Lee CS, et al. Dipeptidyl Peptidase-4 Inhibitor Increases Vascular Leakage in Retina through VE-cadherin Phosphorylation. *Sci Rep.* 2016 Jul 6;6:29393.

Inhibitors · Natural Compounds · Compound Libraries

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