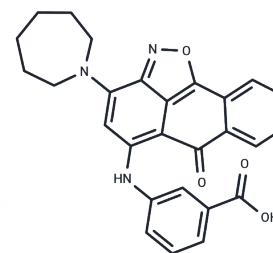


IPR-803

## Chemical Properties

CAS No. : 892243-35-5  
 Formula: C<sub>27</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub>  
 Molecular Weight: 453.49  
 Storage: Store at low temperature  
 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	IPR-803 is an effective inhibitor of the uPAR·uPA protein-protein interaction (PPI) with anti-tumor activity. IPR-803 binds directly to uPAR with a $K_i$ of 0.2 $\mu\text{M}$ .
Targets(IC <sub>50</sub> )	Serine Protease,Serine/threonin kinase
In vitro	IPR-803 (0-200 $\mu\text{M}$ ; 3 days) blocks the invasion of MDA-MB-231 cells, and most of the inhibition of cell invasion is unlikely due to the cytotoxicity of the compound. IPR-803 (50 $\mu\text{M}$ ; 30 minutes) shows inhibition of MAPK phosphorylation. IPR-803 blocks invasion of breast cancer cells line MDA-MB-231, and inhibits matrix metalloproteinase breakdown of the extracellular matrix. IPR-803 impairs MDA-MB-231 cell adhesion and migration. IPR-803 induces a concentration-dependent impairment of cell adhesion with an IC <sub>50</sub> of 30 $\mu\text{M}$ . IPR-803 inhibits MDA-MB-231 cells growth with an IC <sub>50</sub> of 58 $\mu\text{M}$ [1].
In vivo	In NSG mice with MDA-MB-231 cells xenograft, IPR-803 (200 mg/kg; i.g.; three times a week; for 5 weeks) impairs breast cancer metastasis with a $t_{1/2}$ of 5 hours. IPR-803 has a low oral bioavailability at 4 percent, and remains high concentration even after 10 hours in tumor tissue[1].

## Solubility Information

Solubility	DMSO: 7 mg/mL (15.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2051 mL	11.0256 mL	22.0512 mL
5 mM	0.441 mL	2.2051 mL	4.4102 mL
10 mM	0.2205 mL	1.1026 mL	2.2051 mL
50 mM	0.0441 mL	0.2205 mL	0.441 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

Mani T, et al. Small-molecule inhibition of the uPAR•uPA interaction: synthesis, biochemical, cellular, in vivo pharmacokinetics and efficacy studies in breast cancer metastasis. *Bioorg Med Chem.* 2013 Apr 1;21(7):2145-55.

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