IPR-803

Cat. No.:	HY-111192		
CAS No.:	892243-35-	5	
Molecular Formula:	$C_{27}H_{23}N_{3}O_{4}$		
Molecular Weight:	453.49		
Target:	Ser/Thr Pro	tease	
Pathway:	Metabolic E	nzyme/F	rotease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2051 mL	11.0256 mL	22.0512 mL
		5 mM	0.4410 mL	2.2051 mL	4.4102 mL
		10 mM	0.2205 mL	1.1026 mL	2.2051 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
n Vivo		one by one: 50% PEG300 >> 50% sa nL (11.03 mM); Suspended solution; I			
		one by one: 10% DMSO >> 90% (20 ng/mL (1.70 mM); Clear solution	% SBE-β-CD in saline)		

BIOLOGICAL ACTIV	
Description	IPR-803 is a potent inhibitor of the uPAR•uPA protein-protein interaction (PPI). IPR-803 binds directly to uPAR with sub- micromolar affinity. IPR-803 displays anti-tumor activity ^[1] .
IC ₅₀ & Target	Ki: 0.2 μM (PPI) ^[1]
In Vitro	IPR-803 blocks invasion of breast cancer cells line MDA-MB-231, and inhibits matrix metalloproteinase (MMP) breakdown of the extracellular matrix (ECM) ^[1] . IPR-803 impairs MDA-MB-231 cell adhesion and migration ^[1] . IPR-803 induces a concentration-dependent impairment of cell adhesion with an IC ₅₀ of approximately 30 μM ^[1] . IPR-803 inhibits MDA-MB-231 cells growth with an IC ₅₀ of 58 μM ^[1] .

Product Data Sheet

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to cytotoxicity of the co IPR-803 (1-50 μM; 24 ho IPR-803 (50 μM; 30 minu	urs) does not have a significant effect on apoptosis or necrosis ^[1] . Ites) shows inhibition of MAPK phosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	MDA-MB-231 cells
Concentration:	0 μΜ, 50 μΜ, 150 μΜ, 200 μΜ
Incubation Time:	3 days
Result:	Displays 90 percent blockage of invasion that is observed at 50 $\mu\text{M}.$
	ioavailability at 4 percent, and remains high concentration even after 10 hours in tumor tissue ^[1] .
IPR-803 exhibits a half-li	
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CUSTOMER VALIDATION

• Sci Adv. 2021 Jun 18;7(25):eabf4885.

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REFERENCES

[1]. 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.

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

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