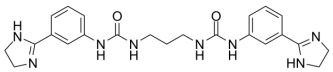
p32 Inhibitor M36

Cat. No.:	HY-124718
CAS No.:	802555-85-7
Molecular Formula:	$C_{23}H_{28}N_8O_2$
Molecular Weight:	448.52
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (11.15 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2296 mL	11.1478 mL	22.2956 mL
	5 mM	0.4459 mL	2.2296 mL	4.4591 mL
	10 mM	0.2230 mL	1.1148 mL	2.2296 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 1.82 mg/mL (4.06 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.82 mg/mL (4.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

p32 inhibitor M36 (M36) is a p32 mitochondrial protein inhibitor, which binds directly to p32 and inhibits p32 association with LyP-1[1].

IC_{50} & Target

p32[1]

In Vitro

p32 Inhibitor M36 inhibits SF188 glioma cells proliferation (IC_{50} of 77.9 μM in complete media) and is much more potent under low glucose conditions with an IC_{50} of 7.3 μM[1].
p32 Inhibitor M36 is selective for p32 overexpressing cells[1].
p32 Inhibitor M36 is also a potent inhibitor of patient-derived neurospheres with an IC_{50} of 2.8 μM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yenugonda V,et al. A novel small molecule inhibitor of p32 mitochondrial protein overexpressed in glioma. J Transl Med. 2017 Oct 18;15(1):210.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA