# p32 Inhibitor M36

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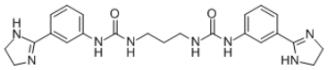
|---|---|
| **Cat. No.:** | HY-124718 |
| **CAS No.:** | 802555-85-7 |
| **Molecular Formula:** | $C_{23}H_{28}N_8O_2$ |
| **Molecular Weight:** | 448.52 |
| **Target:** | PKC |
| **Pathway:** | Epigenetics; TGF-beta/Smad |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

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

| Preparing Stock Solutions | Solvent / Mass / 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.

## 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