p38-α MAPK-IN-1

Cat. No.: HY-18874

CAS No.: 443913-15-3

Molecular Formula: $C_{27}H_{35}N_5O_3$

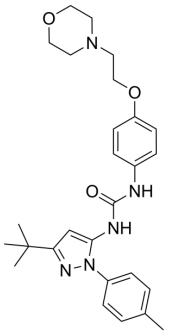
Molecular Weight: 477.6

Target: p38 MAPK; Autophagy

Pathway: MAPK/ERK Pathway; Autophagy

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 : 100 mg/mL (209.38 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.0938 mL	10.4690 mL	20.9380 mL
5 mM	0.4188 mL	2.0938 mL	4.1876 mL
10 mM	0.2094 mL	1.0469 mL	2.0938 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: ≥ 2.5 mg/mL (5.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

p38-α MAPK-IN-1 is an inhibitor of MAPK14 (p38-α), with IC_{50} of 2300 nM in EFC displacement assay, and 5500 nM in HTRF assay[1].

IC_{50} & Target

IC50: 2300 nM (p38-α, in EFC assay), 5500 nM (p38-α, in HTRF assay)[1]

In Vitro

p38-α MAPK-IN-1 (Compound 12) is an inhibitor of MAPK14 (p38-α)>, with IC_{50} of 2300 nM in EFC displacement assay, and 5500 nM in HTRF assay[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Stem Cells. 2022 May 27;40(5):508-522.

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REFERENCES

[1]. Kluter S, et al. Displacement assay for the detection of stabilizers of inactive kinase conformations. J Med Chem. 2010 Jan 14;53(1):357-67.

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