Cot inhibitor-1

Cat. No.: HY-32015

CAS No.: 915365-57-0

Molecular Formula: $C_{27}H_{27}Cl_2FN_8$

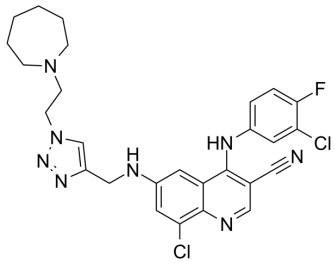
Molecular Weight: 553.46

Target: MAP3K

Pathway: MAPK/ERK Pathway

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 : 25 mg/mL (45.17 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8068 mL	9.0341 mL	18.0682 mL
5 mM	0.3614 mL	1.8068 mL	3.6136 mL
10 mM	0.1807 mL	0.9034 mL	1.8068 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 (4.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cot inhibitor-1 (compound 28) is a selective tumor progression loci-2 (Tpl2) kinase inhibitor with an IC_{50} of 28 nM. Cot inhibitor-1 shows an inhibition of TNF-alpha production in human whole blood with an IC_{50} of 5.7 nM[1].

IC_{50} & Target

IC50: 28 nM (Tpl2 kinase)[1]

CUSTOMER VALIDATION

- Cell Syst. 2022 Oct 30;S2405-4712(22)00430-6.
- Pathol Res Pract. 2021, 153493.

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REFERENCES

[1]. Junjun Wu, et al. Selective inhibitors of tumor progression loci-2 (Tpl2) kinase with potent inhibition of TNF-alpha production in human whole blood. Bioorg Med Chem Lett. 2009 Jul 1;19(13):3485-8.

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