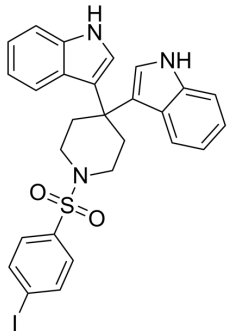
SIC5-6

Cat. No.:	HY-138084
CAS No.:	2410846-16-9
Molecular Formula:	$C_{27}H_{24}IN_3O_2S$
Molecular Weight:	581.47
Target:	Separase
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (171.98 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7198 mL	8.5989 mL	17.1978 mL
	5 mM	0.3440 mL	1.7198 mL	3.4396 mL
	10 mM	0.1720 mL	0.8599 mL	1.7198 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 (4.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SIC5-6 is a potent Separase inhibitor. Separase, a large cysteine protease, involves in chromosome segregation during mitosis and meiosis, DNA damage repair, centrosome disengagement and duplication, spindle stabilization and elongation. Separase is highly overexpressed in many solid cancers, serves as an attractive chemotherapeutic target[1].

IC_{50} & Target

Separase[1]

In Vitro

SIC5-6 (30 μM, 100 μM) increases the activity of Caspase-1 and Rad21 cleavage dose-dependently in HeLa cells. (Rad21: containing the Separase cleavage site conjugated to the fluorescent dye Rh110 (HY-D0817))[1]

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

REFERENCES

[1]. Henschke L, et al. Identification of Bioactive Small Molecule Inhibitors of Separase. ACS Chem Biol. 2019 Oct 18;14(10):2155-2159.

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