TRPA1-IN-2

Cat. No.: HY-153711

CAS No.: 2415206-22-1

Molecular Formula: $C_{24}H_{25}F_3N_4O$

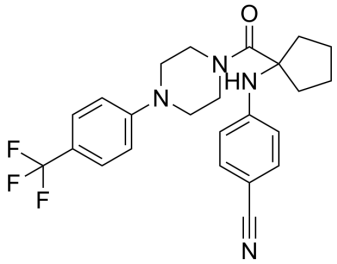
Molecular Weight: 442.48

Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

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 (226.00 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2600 mL	11.2999 mL	22.5999 mL
	5 mM	0.4520 mL	2.2600 mL	4.5200 mL
	10 mM	0.2260 mL	1.1300 mL	2.2600 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.65 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

TRPA1-IN-2 (compound 1) is a potent and orally active TRPA1 inhibitor with an IC_{50} value of 0.04 μM. TRPA1-IN-2 shows anti-inflammation activity[1].

IC_{50} & Target

TRPA1
0.04 μM (IC_{50})

In Vivo

TRPA1-IN-2 (90 mg/kg; i.p. for mice; 30 mg/kg, i.p. for rat; 100 mg/kg; p.o.) shows anti-inflammation activity[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	16-18 g, female BABL/c mice[1]

Dosage:	90 mg/kg
Administration:	I.p.; for 7 days
Result:	Reduced the total number of white blood cells and eosinophils in BALF.

Animal Model:	160-180 g, SD male rats (asthmatic rats)[1]
Dosage:	30 mg/kg
Administration:	I.p.; for 7 days
Result:	Significantly Sexually reduced lung inflammation area and airway inflammation score in asthmatic rats.

REFERENCES

[1]. YunFeng Cheng, et al. Heteroaromatic acetamide derivative, and preparation and use thereof. WO2020244460A1.

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