Eact

Cat. No.: HY-103368

CAS No.: 461000-66-8

Molecular Formula: $C_{22}H_{24}N_2O_5S$

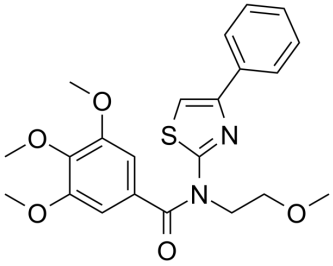
Molecular Weight: 428.5

Target: Chloride Channel

Pathway: Membrane Transporter/Ion Channel

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 : 50 mg/mL (116.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3337 mL	11.6686 mL	23.3372 mL
	5 mM	0.4667 mL	2.3337 mL	4.6674 mL
	10 mM	0.2334 mL	1.1669 mL	2.3337 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 (5.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eact is a selective and potent activator of TMEM16A, directly activates the TRPV1 channels in sensory nociceptors and produces itch, acute nociception and thermal hypersensitivity[1].

In Vitro

Eact elicits both itch-and pain- related behaviours in a TRPV1-dependent manner. Eact activates membrane currents in mTRPV1-expressing HEK293T cells in a concentration-dependent manner with an EC_{50} of 11.6 ± 2.5 μM. TMEM16A activator Eact activates both native and recombinant TRPV1 channels[1].

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

REFERENCES

[1]. Liu S, et al. Eact, a small molecule activator of TMEM16A, activates TRPV1 and elicits pain- and itch-related behaviours. Br J Pharmacol. 2016 Apr;173(7):1208-18.

Caution: Product has not been fully validated for medical applications. For research use only.

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