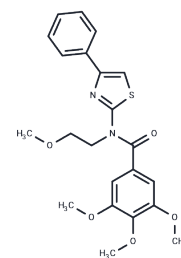


Eact

Chemical Properties

CAS No. :	461000-66-8
Formula:	C ₂₂ H ₂₄ N ₂ O ₅ S
Molecular Weight:	428.5
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Eact is a selective and potent TMEM16A activator that directly activates the TRPV1 channels in sensory nociceptors, thereby producing itch, acute nociception, and thermal hypersensitivity (brackets).
Targets(IC50)	Chloride channel
In vitro	Eact activates membrane currents in mTRPV1-expressing HEK293T cells in a concentration-dependent manner (EC ₅₀ : 11.6 ± 2.5 μM). Eact induces both itch-and pain- related behaviours in a TRPV1-dependent manner. TMEM16A activator Eact activates both native and recombinant TRPV1 channels[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (116.69 mM),Sonication is recommended. H ₂ O: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.83 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0467 mL	0.2334 mL	0.4667 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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