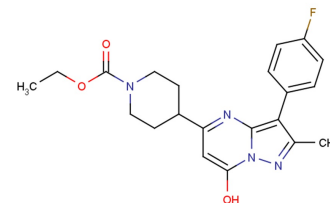


TRPC6-IN-1

Chemical Properties

CAS No.:	901715-05-7
Formula:	C ₂₁ H ₂₃ FN ₄ O ₃
Molecular Weight:	398.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	TRPC6-IN-1 is an inhibitor of the Transient Receptor Potential Canonical 6 Channel (TRPC6) (EC ₅₀ : 4.66 μ M).
Targets(IC ₅₀)	TRPC7: 1.13 μ M TRPC3: 4.66 μ M
In vitro	In the TRPC6 cells, TRPC6-IN-1 rises in a concentration-dependent manner (EC ₅₀ : 4.66 $\pm$ 0.03 μ M). TRPC6-IN-1 is also tested on HEK293 cells that co-expressed μ opioid receptor (MOR) and TRPC4 β , which belongs to a different subgroup of TRPC channels than TRPC3/6/7. Upon stimulation by a μ agonist, these cells show a robust increase in [Ca ²⁺] _i . In HEK293 cells. TRPC6-IN-1 also evokes whole-cell currents that express human TRPC3. TRPC6-IN-1 elicits concentration dependent current increases in the TRPC7 cells. Different from TRPC6, the currents show some desensitization in the high TRPC6-IN-1 concentrations (10 and 30 μ M) at both negative and positive potentials even though the low Ca ²⁺ (0.1 mM) bath solution is used. Nonetheless, a stepwise increase in the TRPC7 currents is still detected at <10 μ M TRPC6-IN-1.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.51 mL	12.549 mL	25.099 mL
5 mM	0.502 mL	2.51 mL	5.02 mL
10 mM	0.251 mL	1.255 mL	2.51 mL
50 mM	0.05 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Qu C, et al. Pyrazolopyrimidines as Potent Stimulators for Transient Receptor Potential Canonical 3/6/7 Channels. J Med Chem. 2017 Jun 8;60(11):4680-4692.

Inhibitors · Natural Compounds · Compound Libraries

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