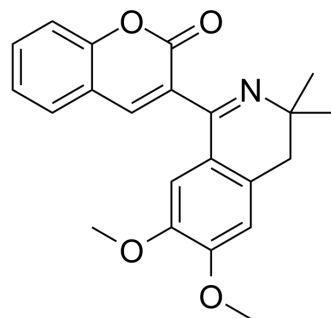


TRPC6-PAM-C20

Cat. No.:	HY-136190		
CAS No.:	667427-75-0		
Molecular Formula:	C ₂₂ H ₂₁ NO ₄		
Molecular Weight:	363.41		
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 : 33.33 mg/mL (91.71 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7517 mL	13.7586 mL	27.5171 mL
	5 mM	0.5503 mL	2.7517 mL	5.5034 mL
	10 mM	0.2752 mL	1.3759 mL	2.7517 mL

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

BIOLOGICAL ACTIVITY

Description

TRPC6-PAM-C20 is a selective positive allosteric modulator (PAM) of TRPC6 channels. TRPC6-PAM-C20 is a potent enhancer of channel activation, enabling low basal concentrations of DAG to induce activation of the ion channel. TRPC6-PAM-C20 induces increases in intracellular Ca²⁺ concentrations ([Ca²⁺]_i) in TRPC6-expressing HEK293 cells with an EC₅₀ of 2.37 μM. TRPC6-PAM-C20 can be used as a valuable tool to selectively exaggerate TRPC6-dependent signals^[1].

IC₅₀ & Target

EC₅₀: 2.37 μM (TRPC6-expressing HEK293 cells)^[1]

REFERENCES

[1]. S Häfner, et al. Discovery and characterization of a positive allosteric modulator of transient receptor potential canonical 6 (TRPC6) channels. Cell Calcium. 2019 Mar;78:26-34.

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

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