

Product Name: TRPC6-PAM-C20

Catalog No.: 6875

Batch No.: 1

CAS Number: 667427-75-0

IUPAC Name: 3-(3-,4-Dihydro-6,7-dimethoxy-3,3-dimethyl-1-isoquinolinyl)-2H-1-benzopyran-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁NO₄·¹/₄H₂O

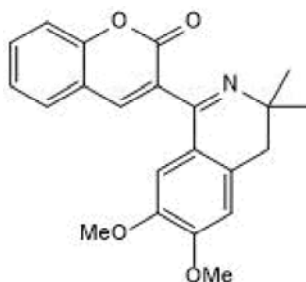
Batch Molecular Weight: 367.91

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.82	5.89	3.81
Found	71.61	5.83	3.84

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective TRPC6 positive allosteric modulator. Selectively activates TRPC6 over other TRP channels. Also activates TRPA1. Induces transient increase in intracellular Ca²⁺ in HEK cells expressing TRPC6 (EC₅₀ = 2.37 μM). Potentiates OAG (1-oleoyl-1-acetyl-sn-glycerol)-induced Ca²⁺ influx in human platelets, and enhances OAG-induced platelet aggregation.

Physical and Chemical Properties:

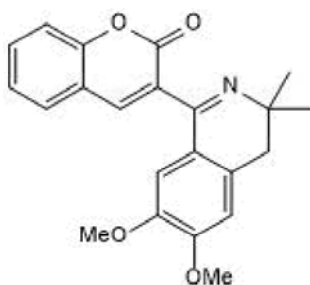
Batch Molecular Formula: C₂₂H₂₁NO₄·¼H₂O

Batch Molecular Weight: 367.91

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Häfner *et al* (2019) Discovery and characterization of a positive allosteric modulator of transient receptor potential canonical 6 (TRPC6) channels. *Cell Calcium* **78** 26. PMID: 30594060.

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