

Product Name: Sodium Cromoglicate

Catalog No.: 6424

Batch No.: 1

CAS Number: 15826-37-6

IUPAC Name: 5,5'-[(2-Hydroxy-1,3-propanediyl)bis(oxy)]bis[4-oxo-4*H*-1-benzopyran-2-carboxylic acid] disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₄Na₂O₁₁·3H₂O

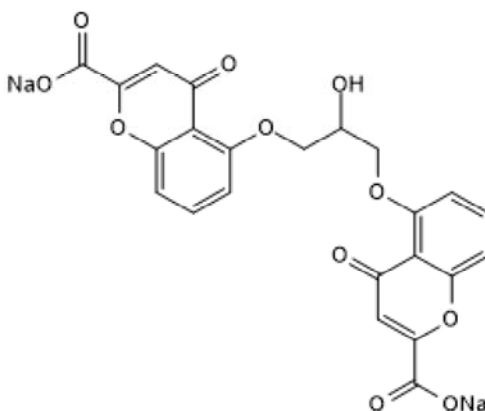
Batch Molecular Weight: 566.38

Physical Appearance: Off White solid

Solubility: water to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 48.78 3.56

Found 48.47 3.46

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

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Description:

Promotes transformation ESCs/iPSCs into pancreatic endocrine islet cells. Facilitates differentiation from endocrine precursors. Also inhibits mast cell degranulation and histamine release. Antiasthmatic.

Physical and Chemical Properties:

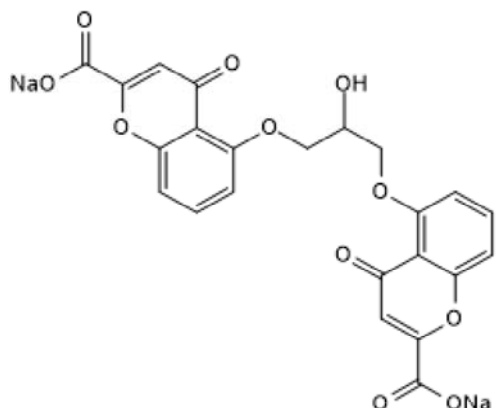
Batch Molecular Formula: C₂₃H₁₄Na₂O₁₁.3H₂O

Batch Molecular Weight: 566.38

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 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:

Kondo *et al* (2017) Identification of a small molecule that facilitates the differentiation of human iPSCs/ESCs and mouse embryonic pancreatic explants into pancreatic endocrine cells. *Diabetologia*. **60** 1454. PMID: 28534195.

Orr and Cox (1969) Disodium Cromoglycate, an inhibitor of mast cell degranulation and histamine release induced by phospholipase A. *Nature*. **223** 197. PMID: 4183038.

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