

Certificate of Analysis

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Product Name: Talniflumate

Catalog No.: 2510

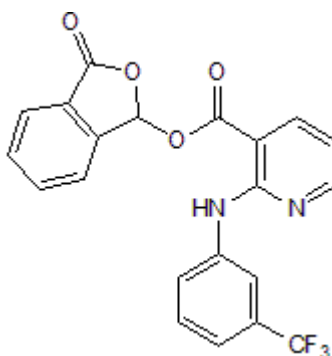
Batch No.: 1

CAS Number: 66898-62-2

IUPAC Name: 2-[[3-(Trifluoromethyl)phenyl]amino]-1,3-dihydro-3-oxo-1-isobenzofuranyl 3-pyridinecarboxylic acid ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₁₃ F ₃ N ₂ O ₄
Batch Molecular Weight:	414.34
Physical Appearance:	White solid
Solubility:	DMSO to 25 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	Between 166 - 167°C
HPLC:	Shows >99.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
	Theoretical 60.88 3.16 6.76
	Found 60.84 3.03 6.59

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

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Description:

Calcium-activated chloride channel (CaCC) (hCLCA1/mCLCA3) blocker; reduces mucin synthesis and release in cell culture and animal models. Possesses anti-inflammatory actions via inhibition of cyclooxygenases and inhibits Cl⁻/HCO₃⁻ exchanger activity. Increases survival in a cystic fibrosis mouse model of distal intestinal obstructive syndrome.

Physical and Chemical Properties:

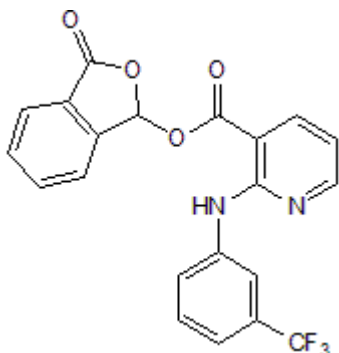
Batch Molecular Formula: C₂₁H₁₃F₃N₂O₄

Batch Molecular Weight: 414.34

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Sanchez et al (1982) Action of a non-steroidal anti-inflammatory drug on gastric mucosa of rats. *J.Appl.Toxicol.* **2** 42.

Knight (2004) Talniflumate (Genaera). *Curr.Opin.Invest.Drugs* **5** 557.

Walker et al (2006) Talniflumate increases survival in a cystic fibrosis mouse model of distal intestinal obstructive syndrome. *J.Pharmacol.Exp.Ther.* **317** 275. PMID: 16354791.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 25 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.

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