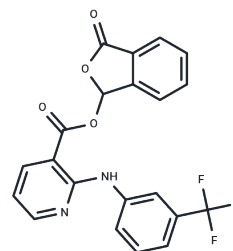


## Talniflumate

## Chemical Properties

CAS No. :	66898-62-2
Formula:	C <sub>21</sub> H <sub>13</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	414.33
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Talniflumate (Somalgen) is a calcium-activated chloride channel (hCLCA1/mCLCA3) blocker that reduces mucin synthesis and releases in animal models and cell culture. It possesses anti-inflammatory actions via inhibition of Cox (cyclooxygenase) and inhibits Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> exchange activity. It also increases survival in a cystic fibrosis mouse model of the distal intestinal obstructive syndrome.
Targets(IC50)	Anion Exchanger, Chloride channel, COX, N-Acetylglucosaminyltransferase

## Solubility Information

Solubility	DMSO: 48 mg/mL (115.85 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.41 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4135 mL	12.0677 mL	24.1354 mL
5 mM	0.4827 mL	2.4135 mL	4.8271 mL
10 mM	0.2414 mL	1.2068 mL	2.4135 mL
50 mM	0.0483 mL	0.2414 mL	0.4827 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Knight D. Talniflumate (Genaera)[J]. Current Opinion in Investigational Drugs, 2004, 5(5):557-62.

Walker N M, et al. Talniflumate increases survival in a cystic fibrosis mouse model of distal intestinal obstructive syndrome.[J]. Journal of Pharmacology & Experimental Therapeutics, 2006, 317(1):275-83.

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