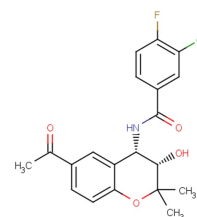


Tonabersat

Chemical Properties

CAS No.:	175013-84-0
Formula:	C ₂₀ H ₁₉ ClFNO ₄
Molecular Weight:	391.82
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Tonabersat is a modulator of the gap-junction.
Targets(IC ₅₀)	Gap-junction: None
In vitro	Tonabersat is a novel benzopyran derivative. Tonabersat inhibits cortical spreading depression and therefore might be able to inhibit the early migraine mechanisms [1].
In vivo	Treatment with either Tonabersat (10 mg/kg) or Meclofenamate (20 mg/kg) as single compounds obviously suppresses the progression of metastatic lesions [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (255.22 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.552 mL	12.761 mL	25.522 mL
5 mM	0.51 mL	2.552 mL	5.104 mL
10 mM	0.255 mL	1.276 mL	2.552 mL
50 mM	0.051 mL	0.255 mL	0.51 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Silberstein SD, et al. Tonabersat, a gap-junction modulator: efficacy and safety in two randomized, placebo-controlled, dose-ranging studies of acute migraine. *Cephalalgia*. 2009 Nov;29 Suppl 2:17-27.
- Chen Q, et al. Carcinoma-astrocyte gap junctions promote brain metastasis by cGAMP transfer. *Nature*. 2016 May 18;533(7604):493-8.
- Kim Y, et al. Tonabersat Prevents Inflammatory Damage in the Central Nervous System by Blocking Connexin43 Hemichannels. *Neurotherapeutics*. 2017 May 30.

Inhibitors · Natural Compounds · Compound Libraries

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