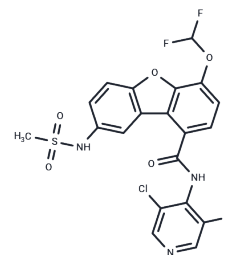


Oglemilast

Chemical Properties

CAS No. :	778576-62-8
Formula:	C ₂₀ H ₁₃ Cl ₂ F ₂ N ₃ O ₅ S
Molecular Weight:	516.3
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	Oglemilast (GRC 3886) suppresses pulmonary cell infiltration, including eosinophilia and neutrophilia in vitro and in vivo. Oglemilast is an effective and orally active phosphodiesterase-4 (PDE4) inhibitor (IC ₅₀ : 0.5 nM for PDE4D3). Oglemilast has the potential for inflammatory airway diseases.
Targets(IC ₅₀)	PDE
In vitro	For the PDE 4B1 and PDE 4D3 reporter cell lines, Oglemilast has EC ₅₀ s of 11.4 nM, 4.4 nM, respectively[3].

Solubility Information

Solubility	DMSO: 3.6 mg/mL (6.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9369 mL	9.6843 mL	19.3686 mL
5 mM	0.3874 mL	1.9369 mL	3.8737 mL
10 mM	0.1937 mL	0.9684 mL	1.9369 mL
50 mM	0.0387 mL	0.1937 mL	0.3874 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

Giembycz MA. Can the anti-inflammatory potential of PDE4 inhibitors be realized: guarded optimism or wishful thinking? Br J Pharmacol. 2008 Oct;155(3):288-90.

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Rabe KF, et al. Update on roflumilast, a phosphodiesterase 4 inhibitor for the treatment of chronic obstructive pulmonary disease. Br J Pharmacol. 2011 May;163(1):53-67.

Wunder F, et al. Characterization of the cellular activity of PDE 4 inhibitors using two novel PDE 4 reporter cellines. Mol Pharm. 2013 Oct 7;10(10):3697-705.

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