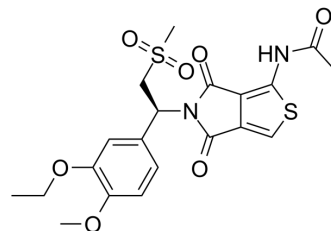


Mufemilast

Cat. No.:	HY-145583		
CAS No.:	1255909-03-5		
Molecular Formula:	C ₂₀ H ₂₂ N ₂ O ₇ S ₂		
Molecular Weight:	466.53		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (214.35 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1435 mL	10.7174 mL	21.4348 mL
	5 mM	0.4287 mL	2.1435 mL	4.2870 mL
	10 mM	0.2143 mL	1.0717 mL	2.1435 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mufemilast is a phosphodiesterase 4 (PDE4) inhibitor^[1].

REFERENCES

[1]. World Health Organization 2022. WHO Drug Information, Vol. 35, No. 4, 2021.

Caution: Product has not been fully validated for medical applications. For research use only.

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