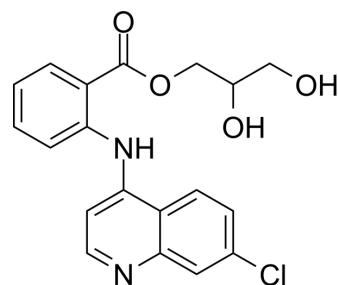


Glafenine

Cat. No.:	HY-B1153		
CAS No.:	3820-67-5		
Molecular Formula:	C ₁₉ H ₁₇ ClN ₂ O ₄		
Molecular Weight:	372.8		
Target:	Anion Exchangers		
Pathway:	Membrane Transporter/Ion Channel		
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 (268.24 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.6824 mL	13.4120 mL	26.8240 mL
	5 mM		0.5365 mL	2.6824 mL	5.3648 mL
	10 mM		0.2682 mL	1.3412 mL	2.6824 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: ≥ 2.08 mg/mL (5.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (5.58 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Glafenine is a non-steroidal anti-inflammatory drug (NSAID) that can be used for pain relief research. Glafenine can also antagonize the misfolding of SLC4A11 protein^[1].

CUSTOMER VALIDATION

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- Bioorg Chem. 2024 Apr 29;147:107412.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chiu AM, et al. High Throughput Assay Identifies Glafenine as a Corrector for the Folding Defect in Corneal Dystrophy-Causing Mutants of SLC4A11. Invest Ophthalmol Vis Sci. 2015 Dec;56(13):7739-53.

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

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