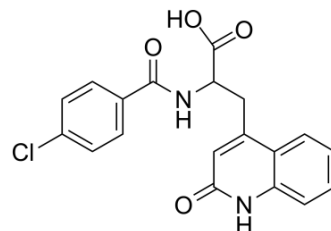


Rebamipide

Cat. No.:	HY-B0360		
CAS No.:	90098-04-7		
Molecular Formula:	C ₁₉ H ₁₅ ClN ₂ O ₄		
Molecular Weight:	370.79		
Target:	COX; Prostaglandin Receptor		
Pathway:	Immunology/Inflammation; GPCR/G Protein		
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 : 50 mg/mL (134.85 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6969 mL	13.4847 mL	26.9694 mL
	5 mM	0.5394 mL	2.6969 mL	5.3939 mL
	10 mM	0.2697 mL	1.3485 mL	2.6969 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Rebamipide (OPC12759) is a mucoprotective agent. Rebamipide induces COX-2 expression, increases PGE2 levels, and enhances gastric mucosal defense in a COX-2-dependent manner^[1].

IC₅₀ & Target

COX-2

PGE2

CUSTOMER VALIDATION

- Redox Biol. 2020 Nov 1;38:101774.

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- Mol Immunol. 2021 Apr 12;135:21-27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sun WH, et al. Induction of cyclooxygenase-2 in rat gastric mucosa by rebamipide, a mucoprotective agent. J Pharmacol Exp Ther. 2000 Nov;295(2):447-52.

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

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