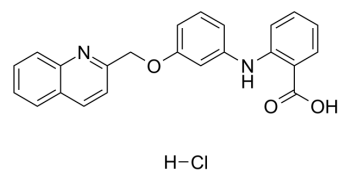


SR2640 hydrochloride

Cat. No.:	HY-107610
CAS No.:	146662-42-2
Molecular Formula:	C ₂₃ H ₁₉ ClN ₂ O ₃
Molecular Weight:	406.86
Target:	Leukotriene Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (614.46 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4578 mL	12.2892 mL	24.5785 mL
				5 mM	0.4916 mL	2.4578 mL	4.9157 mL
				10 mM	0.2458 mL	1.2289 mL	2.4578 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.11 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.11 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	SR2640 (hydrochloride) is a potent and selective competitive leukotriene D ₄ /leukotriene E ₄ antagonist. SR2640 can be used for researching the role of leukotrienes in human asthma ^[1] .
IC ₅₀ & Target	LTD ₄ and LTE ₄ ^[1]
In Vivo	SR2640 inhibits the LTD ₄ -induced contractions of guinea-pig ileum in a concentration-dependent manner, with an IC ₅₀ of 3 nM ^[1] . SR2640 (1 mg/kg; IV; single dosage) specifically prevents the contractile responses of guinea-pig ileum and trachea to LTD ₄ and LTE ₄ ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Guinea pigs (injected with LTD4 and LTE4) ^[1]
Dosage:	1 mg/kg
Administration:	IV; single dosage
Result:	Specifically prevented the contractile responses of guinea-pig ileum and trachea to LTD4 and LTE4.

REFERENCES

[1]. Ahnfelt-Rønne I, Kirstein D, Kaergaard-Nielsen C. A novel leukotriene D4/E4 antagonist, SR2640 (2-[3-(2-quinolylmethoxy)phenylamino]benzoic acid). Eur J Pharmacol. 1988;155(1-2):117-128.

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

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