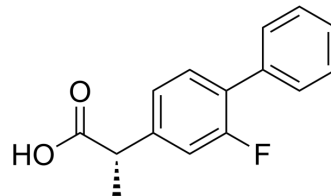


(S)-Flurbiprofen

Cat. No.:	HY-15123		
CAS No.:	51543-39-6		
Molecular Formula:	C ₁₅ H ₁₃ FO ₂		
Molecular Weight:	244.26		
Target:	COX; PGE synthase		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (409.40 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.0940 mL	20.4700 mL	40.9400 mL
		5 mM	0.8188 mL	4.0940 mL	8.1880 mL
	10 mM	0.4094 mL	2.0470 mL	4.0940 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	(S)-Flurbiprofen is an active enantiomer of Flurbiprofen, with IC ₅₀ values of 0.48 μM and 0.47 μM for COX-1 and COX-2, respectively ^[1] .	
IC ₅₀ & Target	COX-1 0.48 μM (IC ₅₀)	COX-2 0.47 μM (IC ₅₀)
In Vitro	(S)-Flurbiprofen (10 ⁻⁷ M) results in a total suppression of basal and stimulated PGE ₂ release in rat skin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. A Carabaza, et al. Stereoselective Inhibition of Inducible Cyclooxygenase by Chiral Nonsteroidal Antiinflammatory Drugs. J Clin Pharmacol. 1996 Jun;36(6):505-12.

[2]. B Averbeck, et al. Inflammatory Mediators Do Not Stimulate CGRP Release if Prostaglandin Synthesis Is Blocked by S(+)-flurbiprofen in Isolated Rat Skin. Inflamm Res. 2003 Dec;52(12):519-23.

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

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