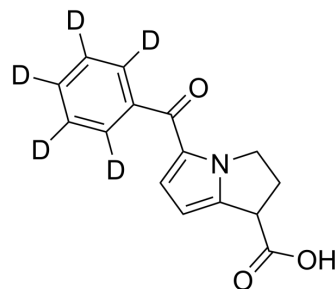


Ketorolac-d₅

Cat. No.:	HY-B0580S		
CAS No.:	1215767-66-0		
Molecular Formula:	C ₁₅ H ₈ D ₅ NO ₃		
Molecular Weight:	260.3		
Target:	COX		
Pathway:	Immunology/Inflammation		
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 : 25 mg/mL (96.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.8417 mL	19.2086 mL	38.4172 mL
		5 mM	0.7683 mL	3.8417 mL	7.6834 mL
10 mM		0.3842 mL	1.9209 mL	3.8417 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Ketorolac-d ₅ is a deuterium labeled Ketorolac. Ketorolac is a non-steroidal anti-inflammatory agent, acting as a nonselective COX inhibitor, with IC ₅₀ s of 20 nM for COX-1 and 120 nM for COX-2[1].	
IC₅₀ & Target	COX-1 20 nM (IC ₅₀)	COX-2 120 nM (IC ₅₀)

REFERENCES

[1]. Waterbury LD, et al. Comparison of cyclooxygenase inhibitory activity and ocular anti-inflammatory effects of ketorolac tromethamine and bromfenac sodium. *Curr Med Res Opin.* 2006 Jun;22(6):1133-40.

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

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