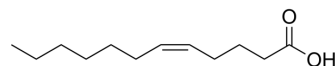


cis-5-Dodecenoic acid

Cat. No.:	HY-N8469
CAS No.:	2430-94-6
Molecular Formula:	C ₁₂ H ₂₂ O ₂
Molecular Weight:	198.3
Target:	Endogenous Metabolite; COX
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (504.29 mM; Need ultrasonic)																									
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Preparing Stock Solutions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>5.0429 mL</td> <td>25.2143 mL</td> <td>50.4286 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>1.0086 mL</td> <td>5.0429 mL</td> <td>10.0857 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.5043 mL</td> <td>2.5214 mL</td> <td>5.0429 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	Preparing Stock Solutions					1 mM		5.0429 mL	25.2143 mL	50.4286 mL	5 mM		1.0086 mL	5.0429 mL	10.0857 mL	10 mM		0.5043 mL	2.5214 mL	5.0429 mL
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	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 (12.61 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.61 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.61 mM); Clear solution 																									

BIOLOGICAL ACTIVITY

Description	cis-5-Dodecenoic acid is an endogenous metabolite with inhibitory activities against COX-I and COX-II ^[1] .			
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite	COX-1	COX-2

REFERENCES

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

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