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Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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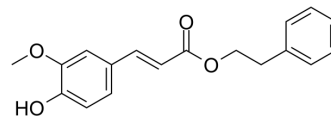
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Phenethyl ferulate

Cat. No.:	HY-W009248
CAS No.:	71835-85-3
Molecular Formula:	C ₁₈ H ₁₈ O ₄
Molecular Weight:	298.33
Target:	Lipoxygenase; 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 : 50 mg/mL (167.60 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.3520 mL</td> <td>16.7600 mL</td> <td>33.5199 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6704 mL</td> <td>3.3520 mL</td> <td>6.7040 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3352 mL</td> <td>1.6760 mL</td> <td>3.3520 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	3.3520 mL	16.7600 mL	33.5199 mL	5 mM	0.6704 mL	3.3520 mL	6.7040 mL	10 mM	0.3352 mL	1.6760 mL	3.3520 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 (8.38 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	Phenethyl ferulate is a major constituent of Qianghuo, shows inhibitory activity against cyclooxygenase (COX) and 5-lipoxygenase (5-LOX) with IC ₅₀ values of 4.35 μM and 5.75 μM, respectively ^[1] .	
IC₅₀ & Target	COX 4.35 μM (IC ₅₀)	5-LOX 5.75 μM (IC ₅₀)

REFERENCES

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

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