## Coniferyl ferulate

Cat. No.:	HY-N1916
CAS No.:	63644-62-2
Molecular Formula:	C <sub>20</sub> H <sub>20</sub> O <sub>6</sub>
Molecular Weight:	356.37
Target:	Gutathione S-transferase; P-glycoprotein
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C. 6 months: -20°C. 1 month (protect from light)

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (280.61 mM; Need ultrasonic)					
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg	
		1 mM	2.8061 mL	14.0304 mL	28.0607 mL	
		5 mM	0.5612 mL	2.8061 mL	5.6121 mL	
		10 mM	0.2806 mL	1.4030 mL	2.8061 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.02 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil</li> </ol>					
	Solubility: ≥ 2.5 mg/mL (7.02 mM); Clear solution					

OGICAL ACTIV	
Description	Coniferyl ferulate, a strong inhibitor of glutathione S-transferase (GST), reverses multidrug resistance and down glycoprotein. Coniferyl ferulate shows strong inhibition of human placental GST with an IC50 of 0.3 μM.
C <sub>50</sub> & Target	Slutathione S-transferase <sup>[1]</sup> <sup>2</sup> -glycoprotein <sup>[1]</sup>

## REFERENCES

[1]. Chen C, et al. Coniferyl Ferulate, a Strong Inhibitor of Glutathione S-Transferase Isolated from Radix Angelicae sinensis, Reverses Multidrug Resistance and



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**Product** Data Sheet

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

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