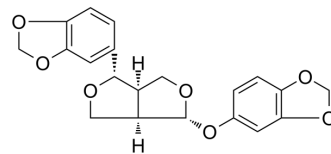


## Sesamol

<b>Cat. No.:</b>	HY-N0809
<b>CAS No.:</b>	526-07-8
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>18</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	370.35
<b>Target:</b>	p38 MAPK; JNK; Caspase
<b>Pathway:</b>	MAPK/ERK Pathway; Apoptosis
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (270.01 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7001 mL	13.5007 mL	27.0015 mL
		5 mM	0.5400 mL	2.7001 mL	5.4003 mL
		10 mM	0.2700 mL	1.3501 mL	2.7001 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (6.75 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.75 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.75 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Sesaminol, isolated from Sesamum indicum, has antioxidative activity, Sesaminol inhibits lipid peroxidation and shows neuroprotection effect. Sesaminol potently inhibits MAPK cascades by preventing phosphorylation of JNK, p38 MAPKs, and caspase-3 but not ERK-MAPK expression <sup>[1][2][3][4]</sup> .
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### CUSTOMER VALIDATION

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- Heliyon. 2023 Apr 21.

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## REFERENCES

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  - [2]. Myung-Hwa Kang, et al. Sesamol Inhibits Lipid Peroxidation in Rat Liver and Kidney. *The Journal of Nutrition*, Volume 128, Issue 6, June 1998, Pages 1018-1022.
  - [3]. Rolis Chien-Wei Hou, et al. Protective effects of sesamin and sesamol on hypoxic neuronal and PC12 cells.
  - [4]. Lim JS, et al. Comparative analysis of sesame lignans (sesamin and sesamol) in affecting hepatic fatty acid metabolism in rats. *Br J Nutr*. 2007 Jan;97(1):85-95.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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