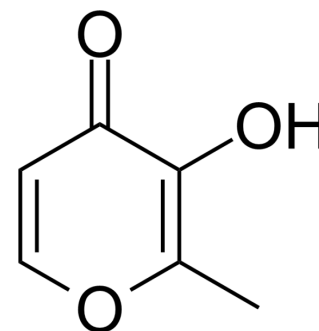


## Maltol

<b>Cat. No.:</b>	HY-W012788		
<b>CAS No.:</b>	118-71-8		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	126.11		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (792.96 mM; Need ultrasonic)  
 H<sub>2</sub>O : 1.82 mg/mL (14.43 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.9296 mL	39.6479 mL	79.2959 mL
	5 mM	1.5859 mL	7.9296 mL	15.8592 mL
	10 mM	0.7930 mL	3.9648 mL	7.9296 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 3.33 mg/mL (26.41 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (19.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (19.82 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Maltol, a type of aromatic compound, exists in high concentrations in red ginseng. Maltol is a potent antioxidative agent and typically is used to enhance flavor and preserve food<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

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## CUSTOMER VALIDATION

- Inflammopharmacology. 2022 Nov 19.
- Oxid Med Cell Longev. 01 Feb 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Guo N, et al. Maltol, a food flavor enhancer, attenuates diabetic peripheral neuropathy in streptozotocin-induced diabetic rats. Food Funct. 2018 Dec 13;9(12):6287-6297.

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

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