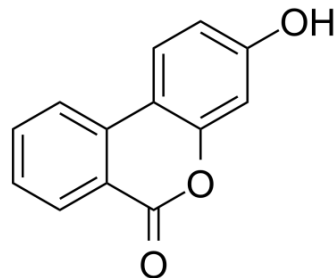


Urolithin B

Cat. No.:	HY-126307												
CAS No.:	1139-83-9												
Molecular Formula:	C ₁₃ H ₈ O ₃												
Molecular Weight:	212.2												
Target:	NF-κB; JNK; ERK; Akt; AMPK; Endogenous Metabolite												
Pathway:	NF-κB; MAPK/ERK Pathway; Stem Cell/Wnt; PI3K/Akt/mTOR; Epigenetics; Metabolic Enzyme/Protease												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1178.13 mM; Need ultrasonic)																			
	<table border="1"> <thead> <tr> <th rowspan="2">Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>4.7125 mL</td> <td>23.5627 mL</td> <td>47.1254 mL</td> </tr> <tr> <td>5 mM</td> <td>0.9425 mL</td> <td>4.7125 mL</td> <td>9.4251 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4713 mL</td> <td>2.3563 mL</td> <td>4.7125 mL</td> </tr> </tbody> </table>	Concentration	Mass			1 mg	5 mg	10 mg	1 mM	4.7125 mL	23.5627 mL	47.1254 mL	5 mM	0.9425 mL	4.7125 mL	9.4251 mL	10 mM	0.4713 mL	2.3563 mL	4.7125 mL
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	Please refer to the solubility information to select the appropriate solvent.																			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.80 mM); Clear solution																			

BIOLOGICAL ACTIVITY

Description	Urolithin B is one of the gut microbial metabolites of ellagitannins, and has anti-inflammatory and antioxidant effects. Urolithin B inhibits NF-κB activity by reducing the phosphorylation and degradation of IκBα, and suppresses the phosphorylation of JNK, ERK, and Akt, and enhances the phosphorylation of AMPK. Urolithin B is also a regulator of skeletal muscle mass ^{[1][2]} .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Lee G, et al. Anti-inflammatory and antioxidant mechanisms of urolithin B in activated microglia. *Phytomedicine*. 2019 Mar 1;55:50-57.

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

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