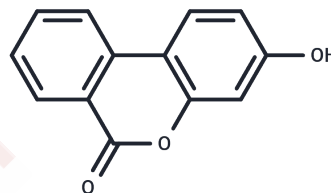


Urolithin B

Chemical Properties

CAS No. :	1139-83-9
Formula:	C13H8O3
Molecular Weight:	212.2
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Urolithin B is one of the gut microbial metabolites of ellagitannins and is found in diverse plant foods, including pomegranates, berries, walnuts, tropical fruits, and medicinal herbs. 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. Urolithin B has anti-inflammatory and antioxidant effects.
Targets(IC50)	ERK,NF-κB,Akt,Endogenous Metabolite,AMPK,JNK

Solubility Information

Solubility	DMSO: 82.5 mg/mL (388.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (15.55 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0943 mL	0.4713 mL	0.9425 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Rodriguez J, et al. Urolithin B, a newly identified regulator of skeletal muscle mass. *J Cachexia Sarcopenia Muscle*. 2017 Aug;8(4):583-597.

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