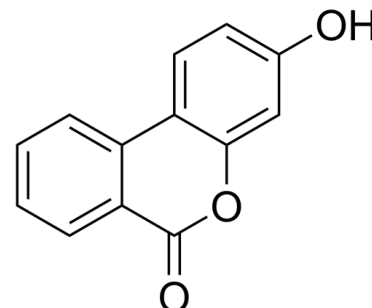


Data Sheet

Product Name:	Urolithin B
Cat. No.:	CS-0101847
CAS No.:	1139-83-9
Molecular Formula:	C ₁₃ H ₈ O ₃
Molecular Weight:	212.20
Target:	Akt; AMPK; Endogenous Metabolite; ERK; JNK; NF-κB
Pathway:	Epigenetics; MAPK/ERK Pathway; Metabolic Enzyme/Protease; NF-κB; PI3K/Akt/mTOR; Stem Cell/Wnt
Solubility:	DMSO : 250 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

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]}.

References:

- [1]. Lee G, et al. Anti-inflammatory and antioxidant mechanisms of urolithin B in activated microglia. *Phytomedicine*. 2019 Mar 1;55:50-57.
- [2]. Rodriguez J, et al. Urolithin B, a newly identified regulator of skeletal muscle mass. *J Cachexia Sarcopenia Muscle*. 2017 Aug;8(4):583-597.
- [3]. Lv MY, et al. Urolithin B suppresses tumor growth in hepatocellular carcinoma through inducing the inactivation of Wnt/β-catenin signaling. *J Cell Biochem*. 2019 Oct;120(10):17273-17282.
- [4]. Rodriguez J, et al. Urolithin B, a newly identified regulator of skeletal muscle mass. *J Cachexia Sarcopenia Muscle*. 2017 Aug;8(4):583-597.

CAIndexNames:

6H-Dibenzo[b,d]pyran-6-one, 3-hydroxy-

SMILES:

O=C1C2=CC=CC=C2C3=CC=C(C(=O)C=C3O1)

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

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