

Product Name: Urolithin A

Catalog No.: 6762

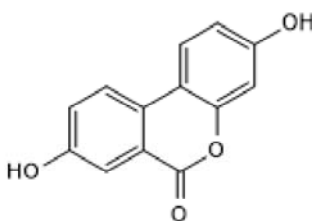
Batch No.: 2

CAS Number: 1143-70-0

IUPAC Name: 3,8-Dihydroxy-6*H*-dibenzo[*b,d*]pyran-6-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₈O₄
Batch Molecular Weight: 228.2
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.42	3.53	
Found	68.05	3.54	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Urolithin A is a PI 3-K/Akt/mTOR signaling pathway inhibitor; blocks phosphorylation of Akt and p70S6K in pancreatic ductal adenocarcinoma (PDAC). Inhibits proliferation and migration and promotes apoptosis of PDAC cell lines in vitro (IC₅₀ values are 10.23 - 62.28 μM). Suppresses tumor growth and improves survival in mice bearing pancreatic tumor xenografts. Also blocks amyloid-β fibrillation in vitro.

Physical and Chemical Properties:

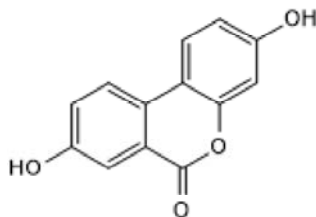
Batch Molecular Formula: C₁₃H₈O₄

Batch Molecular Weight: 228.2

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Totiger *et al* (2019) Urolithin A, a novel natural compound to target PI3K/AKT/mTOR pathway in pancreatic cancer. *Mol.Cancer Ther.* **18** 301. PMID: 30404927.

Yuan *et al* (2016) Pomegranate's neuroprotective effects against Alzheimer's disease are mediated by urolithins, its ellagitannin-gut microbial derived metabolites. *ACS Chem.Neurosci.* **7** 26. PMID: 26559394.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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