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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Urolithin A

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Mitophagy inducer
Catalog No. SIH-610

Product Name

Urolithin A

Description

Mitophagy inducer

Purity

>98% (HPLC); NMR (conforms)

CAS No.

1143-70-0

Molecular Formula

 $C_{13}H_8O_4$

Molecular Weight

228.2

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

May be dissolved in DMSO (50 mg/ml)

Source

Synthetic

Appearance

Pale-yellow powder

SMILES

OC1=CC=C(C(C=CC(O)=C2)=C2C(O3)=O)C3=C1

InChI

InChI=1S/C13H8O4/c14-7-1-3-9-10-4-2-8(15)6-12(10)17-13(16)11(9)5-7/h1-6,14-15H

InChIKey

RIUPLDUFZCXCHM-UHFFFAOYSA-N

Safety Phrases

Classification: Irritant GHS07

Hazard Statements,

H315 (100%): Causes skin irritation [Warning Skin corrosion/irritation]

H319 (100%): Causes serious eye irritation [Warning Serious eye damage/eye irritation]

Precautionary Statement Codes,

P264, P264+P265, P280, P302+P352, P305+P351+P338, P321, P332+P317, P337+P317, and P362+P364

Cite This Product

Urolithin A (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-610)

Biological Description

Alternative Names

3,8-Dihydroxy-6H-dibenzo[b,d]pyran-6-one; or 2',7-Dihydroxy-3,4-benzocoumarin

Research Areas

Alzheimer's Disease, Cancer, Neurodegeneration, Neuroscience, Parkinson's Disease

PubChem ID

5488186

Scientific Background

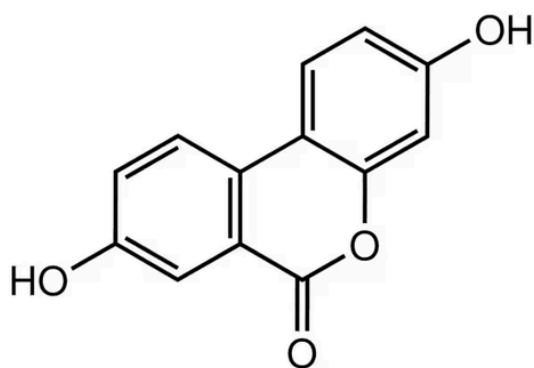
Urolithin A (UA) is a microbial metabolite of dietary ellagitannins produced in the gut (1). It has been shown to induce mitophagy and prolong lifespan in *C. elegans* and increase muscle function in rodents (2). It promotes mitophagy and suppresses NLRP3 inflammasome activation in LPS-induced BV2 microglial cells

and in an MPTP-induced Parkinson's disease model (3). The pro-mitophagy activity of Urolithin A may be beneficial in Alzheimer's disease (4). Ex vivo UA-treated T cells display improved anti-tumor function (5).

References

1. Gonzalez-Barrio R., et al. (2011) J. Agric. Food. Chem. 59:1152
2. Ryu D., et al. 2016 Nat. Med. 22:879
3. Qiu J., et al. 2022 Neuropharmacology 207:108963
4. Jayatunga D.P.W., et al. 2021 Nutrients. 13:3744
5. Denk D., et al. 2022 Immunity. 55:2059

Product Images



Chemical structure of Urolithin A (SIH-610), a Mitophagy inducer. CAS #: 1143-70-0. Molecular Formula: C₁₃H₈O₄. Molecular Weight: 228.2 g/mol.

Product Citations

Reviews

There are no reviews yet.