

## Urolithin A, Mitophagy inducer

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Catalog	Unit
TBI3722-5MG	5 mg
TBI3722-25MG	25 mg

### Product Details

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

**Molecular Formula:** C<sub>13</sub>H<sub>8</sub>O<sub>4</sub>

**Formula Weight:** 228.20

**CAS Number:** 1143-70-0

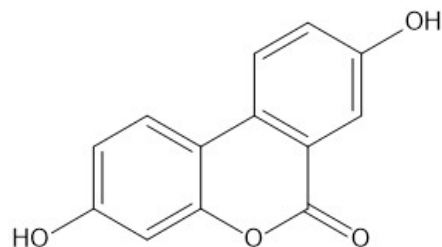
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO up to 50 mg/ml

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Mitophagy inducer

### Functions

Urolithin A (UA) is a microbial metabolite of dietary ellagitannins produced in the gut. It has been shown to induce mitophagy and prolong lifespan in *C. elegans* and increase muscle function in rodents. It promotes mitophagy and suppresses NLRP3 inflammasome activation in LPS-induced BV2 microglial cells and in an MPTP-induced Parkinson's disease model. The pro-mitophagy activity of UA may be beneficial in Alzheimer's disease. Ex vivo UA-treated T cells display improved anti-tumor function.

### Application Procedures

First dissolved in DMSO up to 50 mg/ml, then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

**For research use only.**