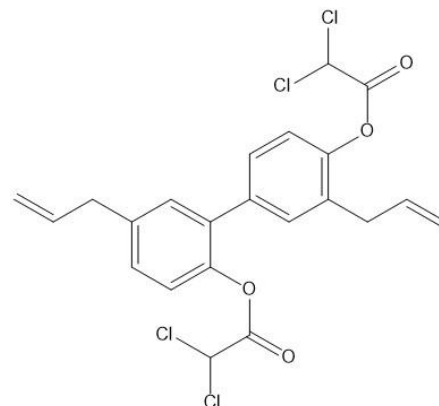


Honokiol-DCA, TRAP1 inhibitor

| Catalog | Unit |
|--------------|-------|
| TBI3596-5MG | 5 mg |
| TBI3596-25MG | 25 mg |

Product Details

Formal Name: Honokiol bis-dichloroacetate
Alternate Names: HDCA
Molecular Formula: C₂₂H₁₈Cl₄O₄
Formula Weight: 488.20
CAS Number: 1620160-42-0
Purity: >98%
Formulation: oil
Solubility: Soluble in DMSO (up to 50 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

TRAP1 inhibitor

Functions

Synthetic bis-dichloroacetate ester of the natural product honokiol, is an allosteric inhibitor of the mitochondrial chaperone TRAP1. It binds to an allosteric site on TRAP1 leading to inhibition (IC₅₀ ~8μM) and is selective over HSP90, unlike 17-AAG and radicicol which are nonselective. Inhibition of TRAP1 leads to upregulation of succinate dehydrogenase and the mitochondrial deacetylase SIRT3. In neoplastic cells HDCA decreases proliferation, increases mitochondrial superoxide levels and abolishes tumorigenic growth. HDCA demonstrated in vivo activity against vemurafenib-resistant (LM36R) melanoma.

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.