

Hinokitiol, Iron chelator; antioxidant

Catalog	Unit
TBI2211-50MG	50 mg
TBI2211-250MG	250 mg

Product Details

Formal Name: β -Thujaplicin, 2-Hydroxy-4-isopropyl-2,4,6-cycloheptatrien-1-one

Molecular Formula: C₁₀H₁₂O₂

Formula Weight: 164.20

CAS Number: 499-44-5

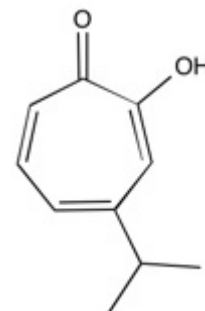
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).

Storage: RT

Stability: \geq 1 year.



Applications

Iron chelator; antioxidant

Functions

Monoterpene natural product first isolated from the western red cedar, identified as a metal chelator and ionophore with activity against microbial growth. Inhibits mushroom tyrosinase (IC₅₀ diphenolase activity = 0.21 μ M) and platelet 12-lipoxygenase (IC₅₀ = 100 nM). Protects against prion-induced neurotoxicity by inducing autophagy via HIF-1 α activation. Causes G1 arrest, autophagy, and EGF-induced migration in HeLa cells.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 4 months.

For research use only.