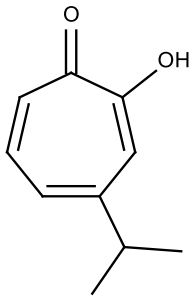
Catalog # 10-2211
Hinokitiol

CAS# 499-44-5

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

Lot # X102165



Hinokitiol is a potent metal chelator that induces differentiation and apoptosis in teratocarcinoma F9 cells.[1] It acts as a reversible inhibitor of platelet-type12-lipoxygenase (IC_{50} = 100 nM).[2] Reported to have strong antibacterial activity[3], suppress cell growth and disrupt androgen receptor signaling[4] and activate hypoxia-inducible factor[5].

1) Ido *et al* (1999*) Induction of apoptosis by hinokitiol, a potent iron chelator, in teratocarcinoma F9 cells is mediated through the activation of caspase-3,* Cell Prolif. **32** 63
2) Suzuki et al. (2000) *Hinokitiol, a selective inhibitor of the platelet-type isozyme of arachidonate 12-lipoxygenase*, Biochem.Biophys.Res.Commun. **275** 885
3) Morita *et al*. (2007) *The mechanism of the bactericidal activity of hinokitiol,* Biocontrol Sci. **12** 101.
4) Liu and Yamauchi (2006) *Hinokitiol, a metal chelator derived from natural plants, suppresses cell growth and disrupts androgen receptor signaling in prostate carcinoma cell lines,* Biochem.Biophys.Res.Commun. **351** 26
5) Lee *et al*. (2010) *Hinokitiol activates the hypoxia-inducible factor (HIF) pathway through inhibition of HIF hydroxylases*, Biochem.Biophys.Res.Commun. **396** 370

PHYSICAL DATA

Molecular Weight:	164.20
Molecular Formula:	$C_{10}H_{12}O_2$
Purity:	>98%
Solubility:	DMSO (up to 25 mg/ml) and ethanol (up to 25 mg/mL
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Store solutions at -20°C for up to 4 months.

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