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DATASHEET

Bakuchiol

Product overview

Name	Bakuchiol
Cat No	HB0129
Biological action	Inhibitor
Purity	>97%
Description	PTB1B inhibitor

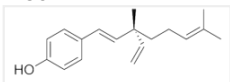
Biological Data

Biological description	Protein tyrosine phosphatase 1B (PTB1B) inhibitor ($IC_{50} = 20.8 \mu M$). Inhibits mitochondrial lipid peroxidation. Shows antibacterial, antioxidant and antitumor actions.
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Solubility & Handling

Solubility overview	Soluble in DMSO or ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-(3-Ethenyl-3,7-dimethyl-1,6-octadienyl)phenol
Molecular Weight	256.4
Chemical structure	
Molecular Formula	$C_{18}H_{24}O$
CAS Number	10309-37-2
PubChem identifier	5468522
SMILES	<chem>CC(=CCCC(C)(C=C)C=CC1=CC=C(C=C1)O)C</chem>

References

In vitro protein tyrosine phosphatase 1B inhibitory phenols from the seeds of *Psoralea corylifolia*.

Kim YC *et al* (2005) *Planta Med* 71(1)

PubMedID [15678382](#)

Inhibition of mitochondrial lipid peroxidation by Bakuchiol, a meroterpene from *Psoralea corylifolia*.

Haraguchi H *et al* (2000) *Planta Med* 66(6)

PubMedID [10985089](#)

Anti-tumor effects of bakuchiol, an analogue of resveratrol, on human lung adenocarcinoma A549 cell line.

Chen Z *et al* (2010) *Eur J Pharmacol* 643(2-3)

PubMedID 20599920

Bakuchiol, an antibacterial component of *Psoralea tenuiflora*.

Hsu PJ *et al* (2009) Nat Prod Res 23(8)

PubMedID 19418361
