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## DATASHEET

Bakuchiol

### Product overview

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

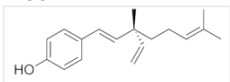
### Biological Data

<b>Biological description</b>	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

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

### Chemical Data

<b>Chemical name</b>	4-(3-Ethenyl-3,7-dimethyl-1,6-octadienyl)phenol
<b>Molecular Weight</b>	256.4
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{18}H_{24}O$
<b>CAS Number</b>	10309-37-2
<b>PubChem identifier</b>	5468522
<b>SMILES</b>	<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 *Psoraleidium tenuiflorum*.**

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

PubMedID

19418361

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