**PRODUCT INFORMATION**

**Bakuchiol**  
*Item No. 11684*

**CAS Registry No.:** 10309-37-2  
**Formal Name:** 4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol  
**Synonym:** (S)-(+-) Bakuchiol  
**MF:** C₁₈H₂₄O  
**FW:** 256.4  
**Purity:** ≥95%  
**UV/Vis.:** $\lambda_{\text{max}}$: 207, 263 nm  
**Supplied as:** A liquid  
**Storage:** -20°C  
**Stability:** ≥2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

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### Laboratory Procedures

Bakuchiol is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of bakuchiol in these solvents is approximately 30 mg/ml.

Bakuchiol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of bakuchiol should be diluted with the aqueous buffer of choice. Bakuchiol has a solubility of approximately 0.25 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method.

### Description

Bakuchiol is a natural meroterpenoid isolated from *P. corylifolia*, a plant used in traditional Asian medicine. In addition to having antioxidant and antibacterial actions, bakuchiol has retinol-like effects on gene expression and properties of the skin.\(^1\)\(^-\)\(^3\) Bakuchiol also inhibits DNA polymerase and UDP-glucuronosyltransferase 2B7 ($IC_{50} = 41 \mu M$).\(^4\)\(^,\)\(^5\)

### References