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%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/VIS: λmax 207, 263 nm

Laboratory Procedures
For long term storage, we suggest that bakuchiol be stored as supplied at -20°C. It should be stable for at least two years.
Bakuchiol is supplied as a crystalline solid. A stock solution may be made by dissolving the bakuchiol in the solvent of choice. Bakuchiol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. 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, bakuchiol should first be dissolved in ethanol and then 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. We do not recommend storing the aqueous solution for more than one day.
Bakuchiol is a natural meroterpene 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 (IC50 = 41 µM).4,5

References

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