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Product Information

Product ID B0109 CAS No. 10309-37-2 Chemical Name Phenol, 4-[(1E, 3S)-3-ethenyl-3, 7-dimethyl-1, 6-octadien-1-yl] Synonym Bakuchiol(7CI), Phenol, 4-(3-ethenyl-3,7-dimethyl-1,6-octadienyl)-, [S-(E)]-, Phenol,4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadienyl]- (9CI), (+)-Bakuchiol, (S)-(+)-Bakuchiol, (S)-Bakuchiol, Drupanol, UP 256 Formula C₁₈H₂₄O Formula Wt. 256.38 **Melting Point** Bulk quanitites available upon request Purity ≥98% Product ID Size Solubility B0109 10 mg B0109 25 mg B0109 100 mg Store Temp -80°C Ship Temp Ambient

Description Bakuchiol is a prenylated phenolic terpene originally sourced from many plants, including *Psoralea coryfolia*. Bakuchiol exhibits estrogenic, antibacterial, anti-inflammatory, anti-diabetic, anti-hyperlipidemic, and anti-fibrotic activities. Bakuchiol activates estrogen receptors, displaying preference for ERa over ERβ. Bakuchiol shows antimicrobial activity against species of *Streptococcus, Enterococcus, Lactobacillus, Actinomyces*, and *Porphyromonas*. In macrophages, bakuchiol inhibits LPS-induced production of NO and prostaglandin E2 (PGE2); in other cellular models, it decreases formation of leukotriene B4 (LTB4) and thromboxane B2 (TXB2). In vivo, bakuchiol decreases PGE2 levels, myeloperoxidase activity, and neutrophil degranulation, decreases refere enderne and triguese and triguese and triguese and triguese. decreasing edema. In multiple animal models of diabetes, this compound decreases plasma glucose and triglyceride levels. Across several cellular models of fibrosis, bakuchiol activates ERK 1/2, JNK, p38 MAPK, caspase-3, cytochrome c release, and cleavage of poly(ADP)-ribose polymerase (PARP). Bakuchiol may also inhibit protein phosphatase 1B (PP1B)

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.