LKT Laboratories, Inc.

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10-Gingerol

Product Information

Product ID G3254

CAS No. 23513-15-7

Chemical Name
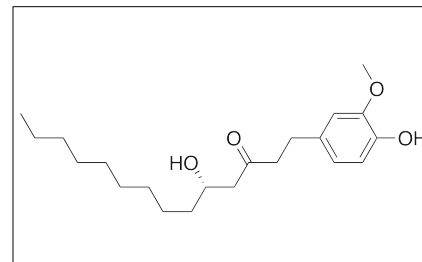
Synonym

Formula $C_{21}H_{34}O_4$

Formula Wt. 350.49

Melting Point 30-30˚C

Purity ≥99%

Solubility methanol: 5 mg/mL

Bulk quanitites available upon request

Product ID	Size
G3254	1 mg
G3254	5 mg
G3254	25 mg

Store Temp -20˚C

Ship Temp Ambient

Description 10-Gingerol is originally found in species of *Zingiber*; it exhibits antiemetic, anticancer, antioxidative, anti-inflammatory, and antibiotic activities. 10-Gingerol increases radical scavenging of superoxide and hydroxyl radicals, inhibits oxidative burst activity, and decreases expression of NO and PGE2 in vitro. 10-Gingerol also inhibits 5-HT3 receptors. Additionally, 10-gingerol inhibits proliferation in breast adenocarcinoma cells. This compound also displays antibacterial efficacy against gram negative bacteria such as *Porphyromonas* and *Prevotella*.

References Almada da Silva J, Becceneri AB, Sanches Mutti H, et al. Purification and differential biological effects of ginger-derived substances on normal and tumor cell lines. J Chromatogr B Analyt Technol Biomed Life Sci. 2012 Aug 15;903:157-62. PMID: 22858304.

Dugasani S, Pichika MR, Nadarajah VD, et al. Comparative antioxidant and anti-inflammatory effects of [6]-gingerol, [8]-gingerol, [10]-gingerol and [6]-shogaol. J Ethnopharmacol. 2010 Feb 3;127(2):515-20. PMID: 19833188.

Park M, Bae J, Lee DS. Antibacterial activity of [10]-gingerol and [12]-gingerol isolated from ginger rhizome against periodontal bacteria. Phytother Res. 2008 Nov;22(11):1446-9. PMID: 18814211.

Abdel-Aziz H, Windeck T, Ploch M, et al. Mode of action of gingerols and shogaols on 5-HT3 receptors: binding studies, cation uptake by the receptor channel and contraction of isolated guinea-pig ileum. Eur J Pharmacol. 2006 Jan 13;530(1-2):136-43. PMID: 16364290.