

Product Name	: Licochalcone D
Synonyms	: Licochalcone D; Licochalcone-D
Cat No.	: M18022
CAS Number	: 144506-15-0
Molecular Formula	: C ₂₁ H ₂₂ O ₅
Formula Weight	: 354.4
Chemical Name	: (E)-3-(3,4-Dihydroxy-2-methoxyphenyl)-1-[4-hydroxy-3-(3-methylbut-2-enyl)phenyl]prop-2-en-1-one
Description	Licochalcone D may be a potential drug for human melanoma treatment by inhibiting proliferation, inducing apoptosis via the mitochondrial pathway and blocking cell migration and invasion. Licochalcone D has cardioprotective potential against myocardial ischemia/reperfusion injury in langendorff-perfused rat hearts. Licochalcone D has anti-inflammatory activity, it shows suppression ability of nitric oxide (NO) production. Licochalcone D has anti-allergic activity, it suppresses degranulation by decreasing the intracellular Ca²⁺ level and tyrosine phosphorylation of ERK in RBL-2H3 cells.
Pathway	: MAPK/ERK Signaling
Target	: p38 MAPK
Receptor	: ERK phosphorylation
Solubility	: —
SMILES	: <chem>COc1c(O)c(O)ccc1\C=C\C(=O)c1ccc(O)c(CC=C(C)C)c1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Wang P, et al. Licochalcone C induces apoptosis via B-cell lymphoma 2 family proteins in T24 cells[J]. Molecular Medicine Reports, 2015, 12(5):7623.