



Licochalcone A

Cat. No.:	OB0225LY-0384
Appearance:	Solid
Purity:	≥98%
Identity:	Confirmed by NMR, HPLC, and LC-MS.
Size:	20 mg; 100 mg; 200 mg; 500 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Licochalcone A is a flavonoid derived from licorice with antioxidant, anti-inflammatory and antibacterial properties.
Synonym	58749-22-7; Licochalcone-A; (E)-3-[4-Hydroxy-2-methoxy-5-(2-methylbut-3-en-2-yl)phenyl]-1-(4-hydroxyphenyl)prop-2-en-1-one; 3-Dimethylallyl-4,4'-dihydroxy-6-methoxychalcone; 2-Propen-1-one, 3-(5-(1,1-dimethyl-2-propenyl)-4-hydroxy-2-methoxyphenyl)-1-(4-hydroxyphenyl)-, (E)-; (E)-3-[5-(1,1-Dimethyl-2-propenyl)-4-hydroxy-2-methoxyphenyl]-1-(4-hydroxyphenyl)-2-propen-1-one
CAS No.	58749-22-7
Compound CID	5318998
Formula	C ₂₁ H ₂₂ O ₄
Formula Weight	338.4

Specification

Source	<i>Glycyrrhiza uralensis</i>
Targets&IC50	UGT1A1: 0.97 μM
Relative Density	1.171 g/cm ³
IUPAC Name	(E)-3-[4-Hydroxy-2-methoxy-5-(2-methylbut-3-en-2-yl)phenyl]-1-(4-hydroxyphenyl)prop-2-en-1-one
InChI	InChI=1S/C21H22O4/c1-5-21(2,3)17-12-15(20(25-4)13-19(17)24)8-11-18(23)14-6-9-16(22)10-7-14/h5-13,22,24H,1H2,2-4H3/b11-8+



InChI Key	KAZSKMJFUPEHHW-DHZHZOJOSA-N
SMILES string	<chem>CC(C)(C=C)C1=C(C=C(C(=C1)/C=C/C(=O)C2=CC=C(C=C2)O)OC)O</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Licochalcone A can be used in cell biology research or play an important role in the study of skin health and anti-inflammatory mechanisms.

Library Information

Targets	UGT; Caspase
Receptors	Caspase-3; UGT1A1
Pathways	Autophagy; Proteases/Proteasome; Apoptosis; Metabolism
Plate Number	AOCL-5
Plate Location	h9
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10 mM DMSO
DMSO Max Solubility	55 mg/mL; 162.53 mM
Water Max Solubility	<1 mg/mL (insoluble or slightly soluble)
Ethanol Max Solubility	67 mg/mL
Solubility	Soluble in (15% Cremophor EL: 5 mg/mL), 14.78 mM chloroform.
ALogP	4.667
HBA_Count	2
HBD_Count	2
Rotatable Bond	6