

Product Datasheet

(Z)-Ligustilide (orb1707974)

Catalog Number	orb1707974
Category	Small Molecules
Description	(Z)-Ligustilide, a bioactive phthalide from Angelica and Cnidium species, suppresses benzo(a)pyrene-induced CYP1A1 expression in human keratinocytes by activating the Nrf2 pathway via reactive oxygen species (ROS). This mechanism highlights its application in researching chemoprevention, oxidative stress, and detoxification pathways in skin models.
Target	Antibacterial, Estrogen Receptor/ERR
Purity	98.81%
MW	190.24
Target Areas	Antibacterial Estrogen Receptor/ERR
Solubility (25°C)	DMSO:100 mg/mL (525.65 mM);10% DMSO+40% PEG300+5% Tween 80+45% Saline:4 mg/mL (21.03 mM)
CAS Number	81944-09-4
Formula	$C_{12}H_{14}O_2$
SMILES	<chem>CCC/C=C\1/C2=C(C=CCC2)C(=O)O1</chem>
Storage	keep away from direct sunlight, store under nitrogen, store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year Shipping with blue ice/Shipping at ambient temperature.
Note	For research use only
Expiration Date	12 months from date of receipt.

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