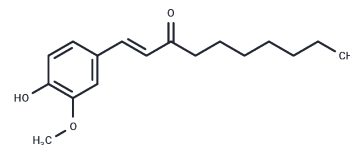


(E)-[6]-Dehydroparadol

Chemical Properties

CAS No. :	878006-06-5
Formula:	C ₁₇ H ₂₄ O ₃
Molecular Weight:	276.37
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(E)-[6]-Dehydroparadol ((6)-Dehydroparadol), an oxidative metabolite of [6]-Shogaol, is a potent Nrf2 activator.
Targets(IC50)	Nrf2
In vitro	(E)-[6]-Dehydroparadol (5-80 μ M; 24 h) inhibits the growth of HCT-116 and H-1299 cells, with IC ₅₀ s of 43.02 and 41.59 μ M, respectively. (E)-[6]-Dehydroparadol (10-40 μ M; 24 h) induces apoptosis in HCT-116 and H-1299 cells[1].
In vivo	(E)-[6]-Dehydroparadol at a concentration of 5 μ M for 24 hours increases the fluorescence signal of Tg[glutathione S-transferase pi 1 (gstp1):green fluorescent protein (GFP)] in Tg(gstp1:GFP) transgenic zebrafish embryos.

Solubility Information

Solubility	DMSO: 120 mg/mL (434.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6183 mL	18.0917 mL	36.1834 mL
5 mM	0.7237 mL	3.6183 mL	7.2367 mL
10 mM	0.3618 mL	1.8092 mL	3.6183 mL
50 mM	0.0724 mL	0.3618 mL	0.7237 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Chen H, et, al. Metabolism of ginger component [6]-shogaol in liver microsomes from mouse, rat, dog, monkey, and human. Mol Nutr Food Res. 2013 May;57(5):865-76.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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