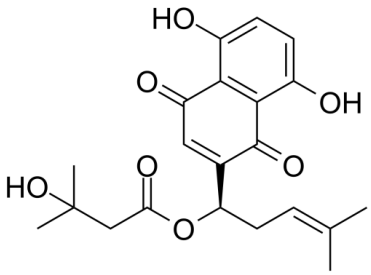
Data Sheet

Product Name:	β-Hydroxyisovalerylshikonin
Cat. No.:	CS-0032419
CAS No.:	7415-78-3
Molecular Formula:	$C_{21}H_{24}O_7$
Molecular Weight:	388.41
Target:	EGFR; Src
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Solubility:	DMSO : 10 mg/mL (25.75 mM; ultrasonic and warming and heat to 60°C)



BIOLOGICAL ACTIVITY:

Beta-hydroxyisovalerylshikonin is a natural product isolated from Lithospermum erythrorhizon, acts as a potent inhibitor of **protein tyrosine kinases (PTK)**, with **IC_{50}**s of 0.7μM and 1μM for EGFR and v-Src receptor, respectively. Beta-hydroxyisovalerylshikonin is effective against a wide variety of tumor cell lines, and most efficiently induces cell-death in NCI-H522 and DMS114 cells[1]. IC50 & Target:IC50: 0.7 μM (EGFR), 1 μM (v-Src)[1]

References:

[1]. Hashimoto S, et al. Beta-hydroxyisovalerylshikonin is a novel and potent inhibitor of protein tyrosine kinases. Jpn J Cancer Res. 2002 Aug;93(8):944-51.

CAIndexNames:

Butanoic acid, 3-hydroxy-3-methyl-, (1R)-1-(1,4-dihydro-5,8-dihydroxy-1,4-dioxo-2-naphthalenyl)-4-methyl-3-penten-1-yl ester

SMILES:

CC(C)(O)CC(O[C@@H](C(C1=O)=CC(C2=C1C(O)=CC=C2O)=O)C/C=C(C)\C)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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