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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Oridonin

HSP70 inhibitor & NLRP inflammasome inhibitor
Catalog No. SIH-624



Discovery through Partnership | Excellence through Quality

Product Name

Oridonin

Description

HSP70 inhibitor & NLRP inflammasome inhibitor

Purity

>98% (TLC); NMR (Conforms)

CAS No.

28957-04-2

Molecular Formula

$C_{20}H_{28}O_6$

Molecular Weight

364.4

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in DMSO (50 mg/ml); or Ethanol (10 mg/ml, warm)

Source

Synthetic

Appearance

White to off-white powder

SMILES

CC1(CCC(C23C1C(C(C45C2CCC(C4O)C(=C)C5=O)(OC3)O)O)O)C

InChI

InChI=1S/C20H28O6/c1-9-10-4-5-11-18-8-26-20(25,19(11,14(9)22)15(10)23)16(24)13(18)17(2,3)7-6-12(18)21/h10-13,15-16,21,23-25H,1,4-8H2,2-3H3/t10-,11-,12-,13+,15+,16-,18+,19-,20+/m0/s1

InChIKey

SDHTXBWLVGWJFT-XKCURVIJSA-N

Safety Phrases

Classification: Warning. Hazard Statements: H351. Precautionary Statements: P203, P280, P318, P405, and P501

Cite This Product

Oridonin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-624)

Biological Description

Alternative Names

7a,20-Epoxy-1a,6b,7,14-tetrahydroxykaur-16-en-15-one; Isodonol

Research Areas

Apoptosis, Cancer, Stem Cells

PubChem ID

5321010

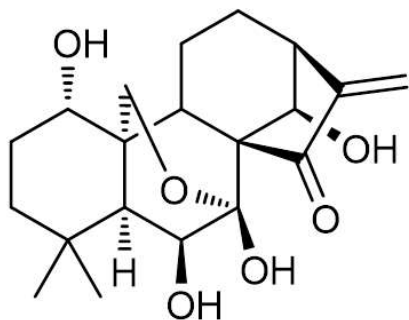
Scientific Background

A potent, covalent inhibitor of the NLRP3 inflammasome with anti-inflammatory activity in various mouse models (1). Inhibits vascular inflammation in vivo (2). Inhibits aberrant AKT activation in human breast cancer cells with hyperactivated PI3K/AKT signaling (3). Inhibits migration, invasion and adhesion of melanoma cells (4). Induces apoptosis in osteosarcoma cells by multiple pathways (5).

References

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1. He H., et al. (2018) Nat. Commun. 9:2550.
 2. Huang W., et al. (2018) Eur. J. Pharmacol. 826:133.
 3. Sun B., et al. (2018) Oncotarget 9:23878.
 4. Li CY., et al. (2018) Oncol. Lett. 15:1362.
 5. Lu Y., et al. (2018) Cell Death Dis. 9:15.
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Product Images



Product Citations

Reviews

There are no reviews yet.