**Catalog # 10-2616**

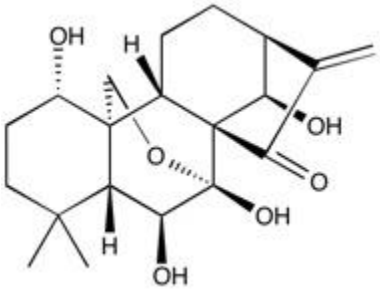
# Oridonin

CAS# 28957-04-2

Isodonol

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

Lot # X104323




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]


*1)* He *et al*. (2018), *Oridonin is a covalent NLRP3 inhibitor with strong anti-inflammasome activity*; Nat. Commun., **9** 2550

*2)* Huang *et al*. (2018), *Oridonin inhibits vascular inflammation by blocking NF-kB and MAPK activation*; Eur. J. Pharmacol., **826** 133

*3)* Sun *et al*. (2018), *Oridonin inhibits aberrant AKT activation in breast cancer*; Oncotarget, **9** 23878

*4)* Li *et al*. (2018), *Oridonin inhibits migration, invasion, adhesion and TGF-ß1-induced epithelial-mesenchymal transition of melanoma cells by inhibiting the activity of PI3K/Akt/GSK-3ß signaling pathway*; Oncol. Lett., **15** 1362

*5)* Lu *et al*. (2018), *Oridonin exerts anticancer effect on osteosarcoma by activating PPARγ and inhibiting Nrf2 pathway*; Cell Death Dis., **9** 15


## PHYSICAL DATA

| | |
|---|---|
| Molecular Weight: | 364.43 |
| Molecular Formula: | $C_{20}H_{28}O_6$ |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 50 mg/ml) or Ethanol (up to 10 mg/ml with warming) |
| Physical Description: | White or off-white solid |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months. |

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