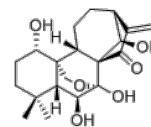


Product Name : Oridonin
Cat. No. : PC-35078
CAS No. : 28957-04-2
Molecular Formula : C₂₀H₂₈O₆
Molecular Weight : 364.438
Target : NOD-like Receptor (NLR)
Solubility : 10 mM in DMSO



Biological Activity

Oridonin (NSC 250682, Isodonol) is a high-affinity **NLRP3 inflammasome** inhibitor (K_d=52.5 nM), covalently binds within NACHT domain, blocks interaction of NLRP3 with NEK.

Oridonin is an active diterpenoid compound isolated from the plant *Rabdosia Rubescens*, has various pharmacological activities, including antioxidant, anti-tumor capacities and anti-inflammation.

Oridonin inhibits AKT kinase activity (AKT1 and AKT2 IC₅₀=8.4 and 8.9 μM) and interacts with the ATP-binding pocket of AKT, inhibits growth of ESCC in vitro and patient derived xenografts in vivo.

Oridonin inhibits vascular inflammation by blocking NF-κB and MAPK activation.

References

Song M, et al. *Mol Cancer Ther.* 2018 Apr 25. pii: molcanther.0823.2017.

Kadioglu O, et al. *Front Pharmacol.* 2018 Apr 16;9:355.

Huang W, et al. *Eur J Pharmacol.* 2018 May 5;826:133-139.

Zhang HP, et al. *Oncotarget.* 2017 Oct 16;8(63):106833-106843.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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