

Product Name	: Oridonin
Synonyms	: NSC 250682
Cat No.	: M13888
CAS Number	: 28957-04-2
Molecular Formula	: C ₂₀ H ₂₈ O ₆
Formula Weight	: 364.44
Chemical Name	: Kaur-16-en-15-one, 7a,20-epoxy-1a,6b,7,14-tetrahydroxy-, (14R)- (8CI)
Description	: Oridonin is an active diterpenoid compound isolated from the plant <i>Rabdosia Rubescens</i> , has various pharmacological activities, including antioxidant, anti-tumor capacities and anti-inflammation; inhibits AKT kinase activity (AKT1 and AKT2 IC ₅₀ =8.4 and 8.9 uM) and interacts with the ATP-binding pocket of AKT, inhibits growth of ESCC in vitro and patient derived xenografts in vivo; inhibits vascular inflammation by blocking NF-κB and MAPK activation.
Pathway	: Natural Products
Target	: Terpenoids
Receptor	: Others;Akt1;Akt2
Solubility	: Ethanol: 28 mg/mL (76.83 mM); DMSO: 72 mg/mL (197.57 mM); Water: <1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
SMILES	: <chem>C=C([C@H](CC1)[C@H]2O)C([C@@]32[C@]4(O)[C@@H](O)[C@]5([H])C(C)(C)CC[C@H](O)[C@@]5(CO4)[C@@]31[H])=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Song M, et al. Mol Cancer Ther. 2018 Apr 25. pii: molcanther.0823.2017. | 2. Kadioglu O, et al. Front Pharmacol. 2018 Apr 16;9:355. | 3. Huang W, et al. Eur J Pharmacol. 2018 May 5;826:133-139. | 4. Zhang HP, et al. Oncotarget. 2017 Oct 16;8(63):106833-106843.