Product Name: Oridonin  
Catalog No.: 6924  
Batch No.: 1

CAS Number: 28957-04-2  
IUPAC Name: 7α,20-Epoxy-1α,6β,7,14-tetrahydroxykaur-16-en-15-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{20}H_{28}O_{6}  
Batch Molecular Weight: 364.44  
Physical Appearance: White solid  
Solubility: DMSO to 100 mM  
ethanol to 100 mM  
Storage: Store at -20°C  

2. ANALYTICAL DATA

HPLC: Shows 99% purity  
¹H NMR: Consistent with structure  
Mass Spectrum: Consistent with structure  
Microanalysis: Carbon Hydrogen Nitrogen  
Theoretical 65.91 7.74  
Found 65.89 7.83

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Information**

**Product Name:** Oridonin

**CAS Number:** 28957-04-2

**IUPAC Name:** 7α,20-Epoxy-1α,6β,7,14-tetrahydroxykaur-16-en-15-one

| Catalog No.: 6924 | Batch No.: 1 |

**Description:**

High affinity NLRP3 inflammasome inhibitor (Kᵢ = 52.5 nM). Forms covalent bind within NACHT domain and blocks interaction of NLRP3 with NEK7 to inhibit assembly and activation of inflammasome. Inhibits glial activation, decreases inflammatory cytokine release, attenuates synaptic loss and improves behavioural deficits in Aβ1-42 treated mice. Also displays anti-cancer properties in various cancer cell lines.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C₂₀H₂₈O₆
- **Batch Molecular Weight:** 364.44
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

- **DMSO** to 100 mM
- **ethanol** to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

- **SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
- **SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**


