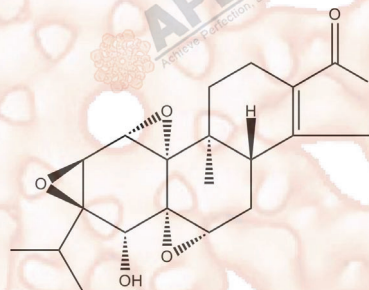


Product Data Sheet

Triptolide

| | |
|------------------|--|
| Cat. No.: | A3891 |
| CAS No.: | 38748-32-2 |
| Formula: | C ₂₀ H ₂₄ O ₆ |
| M.Wt: | 360.41 |
| Synonyms: | PG490 ;PG 490 ;PG-490 |
| Target: | Immunology/Inflammation |
| Pathway: | NF-κB |
| Storage: | Store at -20°C |



Solvent & Solubility

≥ 36 mg/mL in DMSO, insoluble in EtOH, insoluble in H₂O

| In Vitro | Preparing Stock Solutions | Mass | | | |
|----------|------------------------------|--------------------------|-----------|------------|------------|
| | | Solvent Concentration | 1mg | 5mg | 10mg |
| | | 1 mM | 2.7746 mL | 13.8731 mL | 27.7462 mL |
| | | 5 mM | 0.5549 mL | 2.7746 mL | 5.5492 mL |
| | | 10 mM | 0.2775 mL | 1.3873 mL | 2.7746 mL |

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

| | | |
|---------------------------|---------------------------------|---|
| Shortsummary | IL-2/MMP-3/MMP7/MMP19 inhibitor | |
| IC ₅₀ & Target | | |
| In Vitro | Cell Viability Assay | |
| | Cell Line: | Human ovarian cancer cell lines SKOV3 and A2780 |
| | Preparation method: | The solubility of this compound in DMSO is >18mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
| | Reacting conditions: | 15 nM, 24-72 h |
| | Applications: | In both SKOV3 and A2780 cells, triptolide (50 nM, 72 h) noticeably inhibited |

ovarian cancer cell proliferation. Triptolide (15 nM) significantly inhibited cell migration 48 h after wounding. Triptolide (15 nM) markedly blocked the invasive capacity of SKOV3 and A2780 cells.

Animal experiment

In Vivo

| | |
|----------------|--|
| Animal models: | Mice xenografted with human ovarian cancer cell lines SKOV3 |
| Dosage form: | Oral administration, 0.1, 0.3 or 1 mg/kg/day, daily |
| Applications: | Triptolide (1 mg/kg) significantly reduced the number of metastatic nodules by ~80% in mice xenografted with human ovarian cancer cell lines SKOV3. |
| Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal. |

Product Citations

1. Fong N, Saldi T, et al. "RNA Pol II Dynamics Modulate Co-transcriptional Chromatin Modification, CTD Phosphorylation, and Transcriptional Direction." Mol. Cell. 2017 May 18;66(4):546-557.e3.PMID:28506463

See more customer validations on www.apexbt.com.

References

[1]. Zhao H, Yang Z, Wang X, et al. Triptolide inhibits ovarian cancer cell invasion by repression of matrix metalloproteinase 7 and 19 and upregulation of E-cadherin[J]. Experimental & molecular medicine, 2012, 44(11): 633-641.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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