PRODUCT INFORMATION

Content:
Triptolide is supplied as a white solid.
- ant-tpl: 1 mg

Storage and stability:
- Triptolide is shipped at room temperature. Store as supplied at -20°C in a tightly sealed vial. Protect from light. Triptolide as a solid is stable for 6 months when properly stored.
- Once solubilized, prepare aliquots of triptolide and store at -20°C. Avoid repeated freeze-thaw cycles. Protect from light. Solubilized triptolide is stable for 3 months when properly stored.

Quality control
Purity: >98%

DESCRIPTION
Triptolide, a diterpenoid isolated from Tripterygium wilfordii hook F, has been used for centuries in traditional Chinese medicine to treat immune-related disorders. In addition to its anti-inflammatory and immunosuppressive activities, triptolide possesses potent antitumor properties. In a broad range of human tumor cells, Triptolide suppresses cell proliferation and induces apoptosis through caspase activation. At a molecular level, Triptolide inhibits global gene transcription by inducing degradation of RNA polymerase II (Pol II), and by inhibiting the ATPase activity of XPB, a subunit of the general transcription factor TFIIH. Triptolide interferes with a number of transcription factors including p53, NF-κB, nuclear factor of activated T-cells (NFAT) and heat shock factor protein 1 (HSF-1).

CHEMICAL PROPERTIES

CAS number: 38748-32-2
Formula: C20H24O6
Molecular weight: 360.4
Solubility: DMSO, ethanol (10 mg/ml)

METHOD
Preparation of sterile stock solution (10 mM)
To obtain a 10 mM stock solution:
1. Add 280 μl DMSO to 1 mg Triptolide.
2. Vortex until complete solubilization.
3. Prepare aliquots of Triptolide and store at -20°C.

Working concentration: 10-100 nM

RELATED PRODUCT

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<tr>
<th>Product</th>
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<tbody>
<tr>
<td>Bay11-7082 (IkB-α inhibitor)</td>
<td>tlr1-b82</td>
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<tr>
<td>Celastrol (NF-κB inhibitor)</td>
<td>ant-cls</td>
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