

Product Information

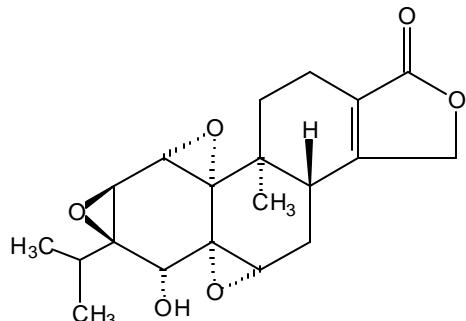
TRIPTOLIDE

Product Number **T3652**

Storage Temperature 2-8 °C

CAS #: 38748-32-2

Synonyms: PG490



Product Description

Source: *Tripterygium wilfordii*

Appearance: White to off-white solid.

Molecular Formula C₂₀H₂₄O₆

Formula Weight 360.4.

Purity: ≥ 98% by HPLC.

Melting point 235-237 °C.

Packaged under inert gas.

Triptolide is a diterpene triepoxide purified from the Chinese herb *Tripterygium wilfordii* hook (TwHF) and is the principal active ingredient in the herb extract. It is a potent immunosuppressant and anti-inflammatory.

Triptolide has been shown to inhibit the expression of IL-2 in activated T cells at the level of purine-box/nuclear factor and NF-κB mediated transcription activation. It synergizes with cyclosporin A in promoting graft survival in animal models and in suppression of graft versus host disease in allogeneic bone marrow transplants. In addition, it induces apoptosis in tumor cells and potentiates tumor necrosis factor (TNF-α) induction of apoptosis in part through the suppression of c-IAP2 and c-IAP1 induction.

Storage/Stability

Store at 2-8 °C. Protect from light and store in tightly closed container.

Preparation Instructions

Soluble in DMSO. After reconstitution, store stock solution at -20 °C.

References

1. Qiu, D., et al., *J. Biol. Chem.*, **274**, 13443-13450 (1999).
2. Lee, K.Y., et al., *J. Biol. Chem.*, **274**, 13451-13455 (1999).
3. Chan, M.A., et al., *Phytother Res.*, **13**, 464-467 (1999).
4. Yang, Y., et al., *Immunopharmacology*, **40**, 139-149 (1998).
5. Gu, W., et al., *Int. J. Immunopharmacol.*, **17**, 351-356 (1995).

1pg 9/00

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.