

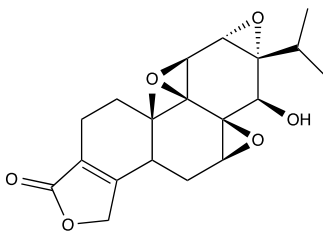
Catalog # 10-2631

Triptolide

CAS# 38748-32-2

(3bS,4aS,5aS,6R,6aR,7aS,7bS,8aS,8bS)-3b,4,4a,6,6a,7a,7b,8b,9,10-Decahydro-6-hydroxy-8b-methyl-6a-(1-methylethyl)trisoxireno[4b,5:6,7:8a,9]phenanthro[1,2-c]furan-1(3H)-one; PG490

Lot # X101417



Possesses potent immunosuppressive and anti-inflammatory activity. Irreversibly inhibits eukaryotic transcription via covalent binding to XPB, a subunit of the transcription factor TFIIH.¹ Blocks transactivation of NFκB.² Exhibits potent antiproliferative activity in 60 cancer cell lines (average IC₅₀ = 12 nM) and synergizes with other anticancer agents.³ Inhibits the inflammatory response and remarkably decreases production of TNF-α, IL-1β and IL-6 in a rat model of rheumatoid arthritis.⁴

- 1) He *et al.* (2015), *Covalent Modification of a Cysteine Residue in the XPB Subunit of the General Transcription Factor TFIIH Through Single Epoxide Cleavage of the Transcription Inhibitor Triptolide*; *Angew.Chem.Int.Ed.Eng.* **54** 1859
- 2) Lee *et al.* (1999), *PG490 (Triptolide) Cooperates with Tumor Necrosis factor-α to Induce Apoptosis in Tumor Cells*; *J.Biol.Chem.* **274** 13451
- 3) Qiao *et al.* (2016), *Synergistic antitumor activity of gemcitabine combined with triptolide in pancreatic cancer cells*; *Oncol.Lett.*, **11** 3527
- 4) Fan *et al.* (2016), *Triptolide Modulates TREM-1 Signal Pathway to Inhibit the Inflammatory Response in Rheumatoid Arthritis*; *Int.J.Mol.Sci.* **17** 498

PHYSICAL DATA

Molecular Weight:	360.40
Molecular Formula:	C ₂₀ H ₂₄ O ₆
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (7 mg/mL)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at -20 for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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