



Product Information

Product ID T7035

CAS No. 38748-32-2

Chemical Name

Synonym PG490

Formula $C_{20}H_{24}O_6$

Formula Wt. 360.40

Melting Point 227-228 °C

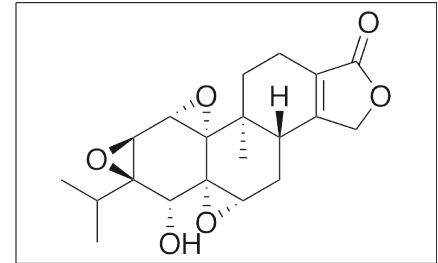
Purity ≥98%

Solubility Soluble in DMSO.

Store Temp 4 °C

Ship Temp Ambient

Description Triptolide is a diterpenoid epoxide originally found in *Tripterygium* that exhibits anticancer chemotherapeutic, anti-angiogenic, antinociceptive, anti-inflammatory, anti-fibrotic, and immunosuppressive activities. Triptolide induces apoptosis and decreases β -catenin expression in breast cancer cells. In cellular and animal models of pancreatic cancer, triptolide inhibits cell proliferation and xenograft growth, downregulates expression of COX-2 and VEGF, and suppresses cell migration and tube formation. In animal models, chronic administration of triptolide decreases activation of glial cells and phosphorylation of MAPKs, suppressing neuropathic pain. Additionally, triptolide decreases expression of IL-17 and STAT3 and suppresses neutrophil migration, displaying hepatoprotective benefit in animal models of liver ischemia/reperfusion injury. Triptolide also prevents the development of cardiac fibrosis and improves cardiac function in animal models of chronic heart failure.



Bulk quantities available upon request

Product ID	Size
T7035	1 mg
T7035	5 mg
T7035	25 mg

References Liu M, Chen J, Huang Y, et al. Triptolide alleviates isoprenaline-induced cardiac remodeling in rats via TGF- β 1/Smad3 and p38 MAPK signaling pathway. *Pharmazie*. 2015 Apr;70(4):244-50. PMID: 26012254.

Shao H, Ma J, Guo T, et al. Triptolide induces apoptosis of breast cancer cells via a mechanism associated with the Wnt/ β -catenin signaling pathway. *Exp Ther Med*. 2014 Aug;8(2):505-508. PMID: 25009609.

Ma JX, Sun YL, Wang YQ, et al. Triptolide induces apoptosis and inhibits the growth and angiogenesis of human pancreatic cancer cells by downregulating COX-2 and VEGF. *Oncol Res*. 2013;20(8):359-68. PMID: 23924856.

Wang W, Mei XP, Chen L, et al. Triptolide prevents and attenuates neuropathic pain via inhibiting central immune response. *Pain Physician*. 2012 Nov-Dec;15(6):E995-1006. PMID: 23159984.

Wu C, Xia Y, Wang P, et al. Triptolide protects mice from ischemia/reperfusion injury by inhibition of IL-17 production. *Int Immunopharmacol*. 2011 Oct;11(10):1564-72. PMID: 21621648.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.