

**DATA SHEET**

**Product Name:** Triptolide

**Catalog #:** CV-1026

**Alt:** 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-methyl6a-(1-methylethyl)trioxireno[4b,5:6,7:8a,9]phenanthro[1,2c]furan-1(3H)-one; PG490

**Molecular Mass:** 360.4

**Analysis:** >98% (HPLC); NMR (conforms)

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (7 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to one month.

**Description:** Possesses potent immunosuppressive and anti-inflammatory activity. Irreversibly inhibits eukaryotic transcription via covalent binding to XPB, a subunit of the transcription factor TFIIH<sup>1</sup>. Blocks transactivation of NFκB<sup>2</sup>. Exhibits potent antiproliferative activity in 60 cancer cell lines (average IC<sub>50</sub> = 12 nM) and synergizes with other anticancer agents<sup>3</sup>. Inhibits the inflammatory response and remarkably decreases production of TNF-α, IL-1β and IL-6 in a rat model of rheumatoid arthritis<sup>4</sup>.

**References:**

1. He, Q.L., et al., (2015) Angew. Chem. Int. Ed. Eng., 54 : 1859
2. Lee, K.Y., et al., (1999) J. Biol. Chem., 274 : 13451
3. Qiao, Z., et al., (2016) Oncol. Lett., 11: 3527
4. Fan, D., et al., (2016) Int. J. Mol. Sci., 17: 498

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