



Catalog Number:	MC11082	Product Type:	Small Molecule
Bio-Activity:	NFkB transcriptional activation inhibitor	CAS #:	38748-32-2
Research Categories:	Immunology, cell death, inflammation, cancer	Chemical Name:	(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)trioxireno[4b,5:6,7:8a,9]phenanthro[1,2-c]furan-1(3H)-one
Solubility:	Soluble in DMSO (up to 7 mg/ml)	Molecular Formula:	C ₂₀ H ₂₄ O ₆
Purity:	> 98%	Molecular Weight:	360.40
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

A potent immunosuppressive and anti-inflammatory agent. Irreversibly inhibits eukaryotic transcription via covalent binding to XPB, a subunit of the transcription factor TFIIH [1]. Blocks transactivation of NFkB [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]. A fast acting RNA polymerase II inhibitor [5].

References:

- 1) QL He et al. Angew. Chem. Int. Ed. Eng. 2015 54:1859
- 2) KY Lee et al. J. Biol. Chem. 1999 274:13451
- 3) Z Qiao et al. Oncol. Lett. 2016 11:3527
- 4) D Fan et al. Int. J. Mol. Sci. 2016 17:498
- 5) S Vispe et al. Mol. Cancer Ther. 2009 8:2780

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