



Triptolide

Data Sheet

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)trisoxireno[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 TFIIFH [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-1 β 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

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012