



Deoxyelephantopin

Cat. No.:	OB0225WX-2046
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Deoxyelephantopin is a sesquiterpene lactone that exerts its biological effects by inhibiting the signaling of NF-kappaB, MAPK, PI3K/Akt, and beta-catenin.
Synonym	Isodeoxyelephantopin; 29307-03-7; [(3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>E</i> ,12 <i>R</i>)-10-methyl-5-methylidene-6,14-dioxo-7,13-dioxatricyclo[10.2.1.0 ^{4,8}]pentadeca-1(15),9-dien-3-yl] 2-methylprop-2-enoate
CAS No.	29307-03-7
Compound CID	6325056
Formula	C ₁₉ H ₂₀ O ₆
Formula Weight	344.36

Specification

Relative Density	1.26 g/cm ³
IUPAC Name	[(3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>E</i> ,12 <i>R</i>)-10-Methyl-5-methylidene-6, 14-dioxo-7,13-dioxatricyclo[10.2.1.0 ^{4,8}]pentadeca-1(15),9-dien-3-yl] 2-methylpro p-2-enoate
InChI	InChI=1S/C19H20O6/c1-9(2)17(20)24-15-8-12-7-13(23-19(12)22)5-10(3)6-14-16(15)11(4)18(21)25-14/h6-7,13-16H,1,4-5,8H2,2-3H3/b10-6+/t13-,14-,15+,16+/m1/s1
InChI Key	JMUOPRSXUVOHFE-GZZMZBIISA-N
SMILES string	C/C1=C[C@@H]2[C@@H]([C@H](CC3=C[C@@H](C1)OC3=O)OC(=O)C(=C)C(C(=C)C(=O)O2
Stability	3 years in powder form.
Storage	Storage at -20°C.



Applications

Deoxyelephantopin is applied in oncology research as a sesquiterpene lactone to study the induction of cell cycle arrest and the inhibition of NF-kappaB and MAP Ks signaling pathways.

Library Information

Target	NF-κB
Receptor	NF-κB
Pathways	NF-κB
Plate Number	AOCL-27
Plate Location	b9
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	100 mg/mL; 290.39 mM