



Triciribine phosphate

Cat. No.:	OB0225WX-1635
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg

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

Product Overview

Description	Triciribine phosphate is a water-soluble AKT inhibitor that exerts its biological effects by inducing cell cycle arrest and activating cysteinyl asparagin-dependent apoptotic pathways.
Synonym	TCN-P; VD 002; VQD-002; 61966-08-3; Pentaazaacenaphthylene-5' phosphate ester; [(2R,3S,4R,5R)-5-(5-amino-7-methyl-2,6,7,9,11-pentazatricyclo[6.3.1.0 ^{4,12}]dodeca-1(12),3,5,8,10-pentaen-2-yl)-3,4-dihydroxyoxolan-2-yl]methyl dihydrogen phosphate; Triciribine-phosphate; Triciribine-5'-monophosphate; 3-Amino-1,5-dihydro-5-methyl-1-beta-D-ribofuranosyl-1,4,5,6,8-pentaazaacenaphthylene 5'-(dihydrogen phosphate); 1,4,5,6,8-Pentaazaacenaphthylene-3-amine, 1,5-dihydro-5-methyl-1-(5-O-phosphono-beta-D-ribofuranosyl)-; 1,4,5,6,8-Pentaazaacenaphthylene-3-amine, 1,5-dihydro-5-methyl-1-(5-O-phosphono-beta-D-ribofuranosyl)-; [(2R,3S,4R,5R)-5-[amino(methyl)]-3,4-dihydroxy-tetrahydrofuran-2-yl]methyl dihydrogen phosphate; 3-Amino-1,5-dihydro-5-methyl-1-beta-D-ribofuranosyl-1,4,5,6,8-pentaazaacenaphthylene 5'-(dihydrogen phosphate)
CAS No.	61966-08-3
Compound CID	43860
Formula	C ₁₃ H ₁₇ N ₆ O ₇ P
Formula Weight	400.28

Specification



Relative Density	2.23 g/cm ³
IUPAC Name	[(2R,3S,4R,5R)-5-(5-Amino-7-methyl-2,6,7,9,11-pentazatricyclo[6.3.1.0 ^{4,12}]dodeca-1(12),3,5,8,10-pentaen-2-yl)-3,4-dihydroxyoxolan-2-yl]methyl dihydrogen phosphate
InChI	InChI=1S/C13H17N6O7P/c1-18-11-7-5(10(14)17-18)2-19(12(7)16-4-15-11)13-9(21)8(20)6(26-13)3-25-27(22,23)24/h2,4,6,8-9,13,20-21H,3H2,1H3,(H2,14,17)(H2,22,23,24)/t6 -,8-,9-,13-/m1/s1
InChI Key	URLYINUFLXOMHP-HTVVRFAVSA-N
SMILES string	CN1C2=NC=NC3=C2C(=CN3[C@H]4[C@@H]([C@H]([C@H](O4)COP(=O)(O)O)O)O)C(=N1)N
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Triciribine phosphate is utilized in experimental oncology to examine the suppression of Akt phosphorylation and its subsequent effects on the survival and proliferation of malignant cells.

Library Information

Target	Akt
Receptor	Akt
Pathways	Cytoskeletal signaling; PI3K/Akt/mTOR signaling; Apoptosis
Plate Number	AOCL-21
Plate Location	h10
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	2mM DMSO
DMSO Max Solubility	1 mg/mL; 2.50 mM
Water Max Solubility	5 mg/mL; 12.49 mM