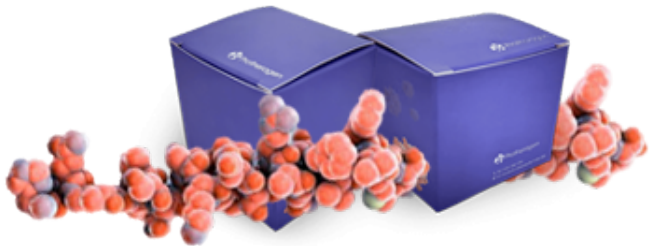
Protheragen
Obesity



API-1

Cat. No.:	OB0225WX-1648
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg

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

Product Overview

Description	API-1 is a powerful AKT inhibitor that facilitates the degradation of Mcl-1 thro ugh a GSK3-dependent mechanism mediated by FBXW7 and β-TrCP.
Synonym	NSC177223; 36707-00-3; NSC 177223; 4-Amino-5,6,7,8-tetrahydro-5-oxo-8-(beta-D-ri bofuranosyl)pyrido[2,3-d]pyrimidine-6-carboxamide; NSC-177223; 4-amino-5,8-dihyd ro-5-oxo-8-beta-d-ribofuranosyl-pyrido[2,3-d]pyrimidine-6-carboxamide; 4-Amino-5 ,8-dihydro-5-oxo-8-beta-D-ribofuranosylpyrido(2,3-d)pyrimidine-6-carboxamide; Py rido(2,3-d)pyrimidine-6-carboxamide, 4-amino-5,8-dihydro-5-oxo-8-beta-D-ribofura nosyl-; 4-amino-8-((2*R*,3*R*,4*S*,5*R*)-3,4-dihydroxy-5-(hy droxymethyl)tetrahydrofuran-2-yl)-5-oxo-5,8-dihydropyrido[2,3-d]pyrimidine-6-car boxamide
CAS No.	36707-00-3
Compound CID	24773090
Formula	$C_{13}H_{15}N_5O_6$
Formula Weight	337.29

Specification

Relative Density	1.792 g/cm^3
IUPAC Name	4-Amino-8-[(2*R*,3*R*,4*S*,5*R*)-3,4-dihydroxy-5-(hydroxymet hyl)oxolan-2-yl]-5-oxopyrido[2,3-d]pyrimidine-6-carboxamide

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
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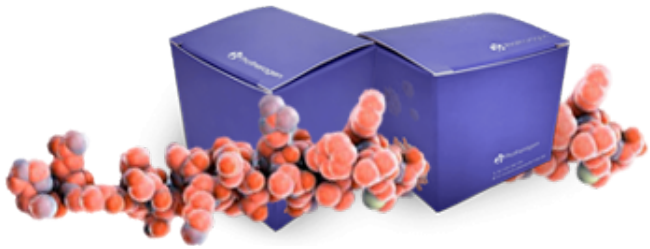

InChI	InChI=1S/C13H15N5O6/c14-10-6-7(20)4(11(15)23)1-18(12(6)17-3-16-10)13-9(22)8(21)5(2-19)24-13/h1,3,5,8-9,13,19,21-22H,2H2,(H2,15,23)(H2,14,16,17)/t5-,8-,9-,13-/m1 /s1
InChI Key	SPBWHPXCWJLQRU-FITJORAGSA-N
SMILES string	C1=C(C(=O)C2=C(N=CN=C2N1[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O)O)N)C(=O)N
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	API-1 is used in molecular pharmacology to study the specific inhibition of Akt pleckstrin homology (PH) domain translocation, thereby preventing its recruitmen t to the plasma membrane.

Library Information

Target	Akt
Receptor	Akt
Pathways	Cytoskeletal signaling; PI3K/Akt/mTOR signaling
Plate Number	AOCL-22
Plate Location	b3
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	22.5 mg/mL; 66.71 mM

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