

VX-984

Cat. No.:	OB0225WX-2273
Appearance:	Solid
Purity:	≥97%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg

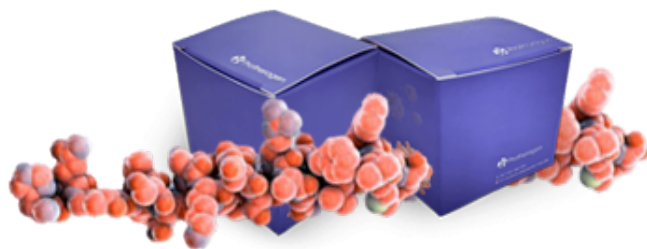
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	VX-984 is an orally active and blood-brain barrier-permeable DNA-PK inhibitor that blocks the conjugation of non-homologous end-joining (NHEJ).
Synonym	M9831; 1476074-39-1; 8-[(2S)-1-[[6-(4,6-dideuterio-2-methylpyrimidin-5-yl)pyrimidin-4-yl]amino]propan-2-yl]-N-methylquinoline-4-carboxamide; M9831 ; M-9831; VX984; 4-Quinolinecarboxamide, N-methyl-8-[(1S)-1-methyl-2-[(2'-methyl(4,5'-bipyrimidin)-6-yl-4',6'-d2)amino]ethyl)-; N-Methyl-8- [(2S)-1-[(6-(2-methyl(2H2)pyrimidin-5-yl)pyrimidin-4-yl)amino]propan-2-yl)quinoline-4-carboxamide; 4-Quinolinecarboxamide, N-methyl-8-[(1S) -1-methyl-2-[(2'-methyl[4,5'-bipyrimidin]-6-yl-4',6'-d2)amino]ethyl)-; (S)-N-methyl-8-(1-[(2'-methyl-[4,5'-bipyrimidin]-6-yl-4',6'-d2)amino]propan -2-yl)quinoline-4-carboxamide; N-methyl-8-[(2S)-1-{[2'-methyl(4',6'-(2)H?)-[4,5'-bipyrimidin]-6-yl]amino}propan-2-yl]quinoline-4-carboxamide
CAS No.	1476074-39-1
Compound CID	72188357
Formula	C ₂₃ H ₂₁ D ₂ N ₇
Formula Weight	415.49

Specification

Relative Density	1.31 g/cm ³
IUPAC Name	8-[(2S)-1-[[6-(4,6-Dideuterio-2-methylpyrimidin-5-yl)pyrimidin-4-yl]amino]propan-2-yl]-N-methylquinoline-4-carboxamide



InChI	InChI=1S/C23H23N7O/c1-14(17-5-4-6-18-19(23(31)24-3)7-8-25-22(17)18)10-28-21-9-20(29-13-30-21)16-11-26-15(2)27-12-16/h4-9,11-14H,10H2,1-3H3,(H,24,31)(H,28,29,30) /t14-/m1/s1/i11D,12D
InChI Key	PEACIOGDEQRHFA-KIYKJNLWSA-N
SMILES string	[2H]C1=C(C(=NC(=N1)C)[2H])C2=CC(=NC=N2)NC[C@@H](C)C3=CC=CC4=C(C=CN=C43)C(=O)NC
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	VX-984 is utilized in oncological studies as a potent inhibitor of DNA-PK to examine the synergistic effects of combining kinase inhibition with radiotherapy or chemotherapy in cancer models.

Library Information

Target	DNA-PK
Receptor	DNA-PK
Pathways	DNA damage/DNA repair; PI3K/Akt/mTOR signaling
Plate Number	AOCL-30
Plate Location	b2
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	9.0 mg/mL; 21.7 mM