

Product Name	: BX-320
Synonyms	: BX320
Cat No.	: M15697
CAS Number	: 702676-93-5
Molecular Formula	: C ₂₃ H ₃₁ BrN ₈ O ₃
Formula Weight	: 547.46
Chemical Name	: Propanediamide, N-[3-[[5-bromo-2-[[3-[(1-pyrrolidinylcarbonyl)amino]phenyl]amino]-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-(9C)
Description	: BX-320 is a potent, selective and ATP-competitive inhibitor of PDK1 with IC ₅₀ of 30 nM, >20-fold selectivity over PKA; blocks PDK1/Akt signaling in tumor cells and inhibits the anchorage-dependent growth of a variety of tumor cell lines in culture or induces apoptosis; inhibits the growth of LOX melanoma tumors in the lungs of nude mice.
Pathway	: PI3K/Akt/mTOR signaling
Target	: PDK
Receptor	: PDK
Solubility	: —
SMILES	: CC(C)(C(=O)N)C(=O)NCCCNC1=NC(=NC=C1Br)NC2=CC(=CC=C2)NC(=O)N3CCCC3
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Feldman RI, et al. J Biol Chem. 2005 May 20;280(20):19867-74.