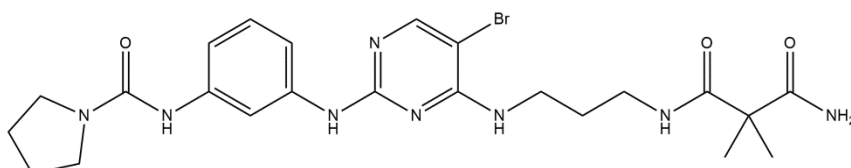


# BX-320

**ALTERNATE NAMES:** N1-[3-[[5-Bromo-2-[[3-[(1-pyrrolidinylcarbonyl)amino]phenyl]amino]-4-pyrimidinyl]amino]propyl]-2,2-dimethylpropanediamide; UNII-B504GXS5SM; N-(3-[[5-Bromo-2-[[3-[(Pyrrolidin-1-ylcarbonyl)amino]phenyl]amino)Pyrimidin-4-yl]amino]propyl)-2,2-dimethylmalonamide; N-(3-(4-(3-(3-amino-2,2-dimethyl-3-oxopropanamido)propylamino)-5-bromopyrimidin-2-ylamino)phenyl)pyrrolidine-1-carboxamide

**CATALOG #:** B2916-1 1 mg  
B2916-5 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>23</sub>H<sub>31</sub>BrN<sub>8</sub>O<sub>3</sub>

**MOLECULAR WEIGHT:** 547.45

**CAS NUMBER:** 702676-93-5

**APPEARANCE:** Solid

**PURITY:** 95%

**SOLUBILITY:** Soluble in DMSO

**DESCRIPTION:** BX-320 is an inhibitor of 3-phosphoinositide-dependent kinase-1 (PDK1). The phosphoinositide 3-kinase/PDK1/Akt signaling pathway plays an important role in cancer cell growth, survival and angiogenesis. BX-320 inhibits PDK1 enzyme activity in a kinase assay with an IC<sub>50</sub> of 30 nM. BX-320 blocks the growth of MDA-453, U87-MG and PC-3 cells in soft agar with IC<sub>50</sub> values of 0.093 μM, 0.3 μM and 0.4 μM respectively. BX-320 inhibits the growth of LOX melanoma tumors in mice models.

**STORAGE TEMPERATURE:** -20°C

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCE:** Feldman, R.I., Wu, J.M., Polokoff, M.A., et al. Novel Small Molecule Inhibitors of 3-Phosphoinositide-dependent Kinase-1. *Journal of Biological Chemistry* 280, 19867-19874 (2005).

**RELATED PRODUCTS:**

BAG 956 (Cat. No. 2456)  
 PHT-427 (Cat. No. 2465)  
 BX-517 (Cat. No. B1764)  
 BX-912 (Cat. No. B1765)  
 GSK-2334470 (Cat. No. B1555)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*