

Product Specification Sheet

Product Name: BX-912

Catalog Number: C2991

Technical information:

Chemical Formula: $C_{20}H_{23}BrN_8O$

CAS #: 702674-56-4

Molecular Weight: 471.35

Purity: > 98%

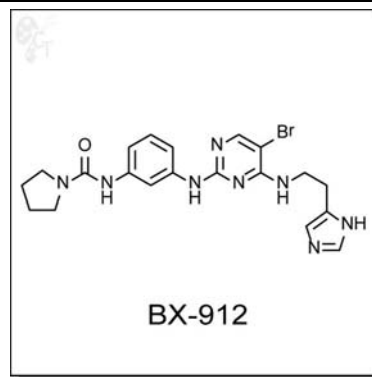
Appearance: white solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: N-(3-(4-(2-(1H-imidazol-5-yl)ethylamino)-5-bromopyrimidin-2-ylamino)phenyl)pyrrolidine-1-carboxamide

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



BX-912

- Handling:**
- To make 10 mM stock solution, add 0.212mL of DMSO for each mg of BX-912.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: BX-912 is an aminopyrimidine-based, ATP-competitive inhibitor of PDK1 at an IC₅₀ of 12 nM. In a panel of relevant serine-threonine and receptor-tyrosine kinases, BX-912 showed at least 20-fold selectivity with the exception of 9-fold selectivity (110 nM) for PKA. In a panel of cell lines, BX-912 potently inhibits growth of PC-3 cells in soft agar at an IC₅₀ of 320 nM. (1)

Reference: 1. Feldman et al., Novel Small Molecule Inhibitors of 3-Phosphoinositide-dependent Kinase-1, J. Biol. Chem. 2005, 280, 19867-19874. Pubmed ID: 15772071

To reorder: <http://www.cellagentech.com/BX-912/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.