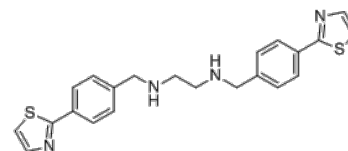


Product Name : BC-1258
Cat. No. : PC-38449
CAS No. : 1507370-40-2
Molecular Formula : C₂₂H₂₂N₄S₂
Molecular Weight : 406.57
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

BC-1258 is a specific small molecule **FBXO3** inhibitor and F-box/LRR-repeat protein 2 (**FBXL2**) activator, BC-1258 is sufficient to stabilize and upregulate FBXL2 levels, selectively induces Aurora B degradation in vitro and in vivo. BC-1258 induced FBXL2 concentrations in a variety of cells, decreased FBXL2 substrates, including Aurora B in human leukemia cells.

BC-1258 induced apoptosis in leukemic cells by causing mitotic arrest and tetraploidy.

BC-1258 prematurely depleted Aurora B by SCFFBXL2-induced ubiquitination and degradation, BC-1258 (30 ug/ml in the drinking water) showed significant decreases in Aurora B protein levels and inhibited tumorigenesis on growth of U937 tumor implants in nude mice.

References

B B Chen, et al. *Cell Death Dis.* 2013 Aug 8;4(8):e759.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com