

Cat No. 11-W09



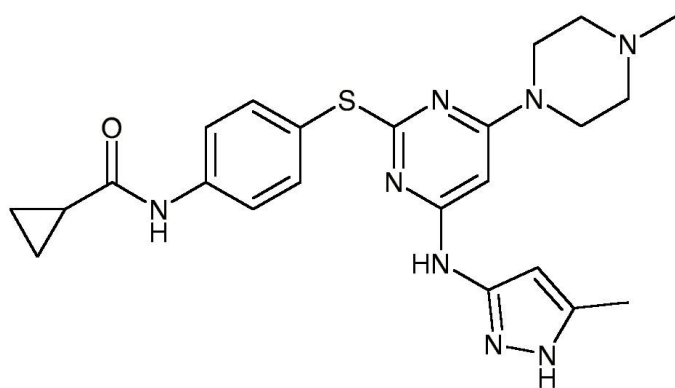
Tozasertib

25 mg

For research purposes only

Tozasertib is a potent inhibitor of all aurora kinases, including isotypes A, B and C. It has been shown to inhibit cell cycle progression, induce apoptosis and block tumor growth in varieties of *in vivo* xenograft models, including leukemia, colon and pancreatic tumors. Tozasertib has been shown to cause accumulation of cells with 4N DNA content and potently inhibit the proliferation of a wide variety of tumor cell types with IC50 values ranging from 15 to 113 nM. Tozasertib had no effect on the viability of noncycling primary human cells at concentrations as high as 10uM.

TECHNICAL INFORMATION



Other Names: VX-680, MK-0457, VX6

Chemical Formula: C₂₃H₂₈N₈OS

CAS Number: 639089-54-6

Molecular Weight: 464.49

Purity: >98%

Appearance: a crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO at 100 mg/ml. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Li et al. (2010) VX680/MK-0457, a potent and selective Aurora kinase inhibitor, targets both tumor and endothelial cells in clear cell renal cell carcinoma. *Am J Transl Res.* 2(3): 296-308.
2. Harrington et al. (2004) VX-680, a potent and selective small molecule inhibitor of the Aurora kinases, suppresses tumor growth *in vivo*. *Nat Med.* 10(3):262-7.
3. Tyler et al. (2007) VX-680 inhibits Aurora A and Aurora B kinase activity in human cells. *Cell Cycle.* 6(22):2846-54.