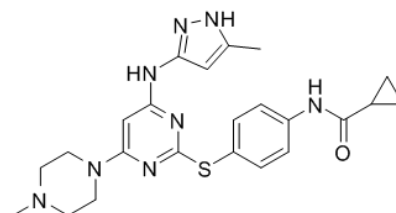


Product Name : Tozasertib
Cat. No. : PC-42409
CAS No. : 639089-54-6
Molecular Formula : C₂₃H₂₈N₈OS
Molecular Weight : 464.5864
Target : Aurora Kinase
Solubility : 10 mM in DMSO



Biological Activity

Tozasertib (MK-0457, VX-680) is a highly potent, selective and reversible **Aurora kinase** inhibitor with K_i of 0.6, 18 and 4.6 nM for Aurora A, B and C, respectively. Tozasertib (MK-0457, VX-680) also inhibits the imatinib-resistant ABL(T315I) kinase with K_d of 5 nM, displays >100-fold selectivity for the Aurora-A kinase over 55 other kinases with the only exception FLT-3 (K_i=30 nM). Tozasertib (MK-0457, VX-680) blocks cell-cycle progression and induces apoptosis in a diverse range of human tumor types. Tozasertib (MK-0457, VX-680) causes profound inhibition of tumor growth in a variety of in vivo xenograft models.

References

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Young MA, et al. **Cancer Res.** 2006 Jan 15;66(2):1007-14.
Carter TA, et al. **Proc Natl Acad Sci U S A.** 2005 Aug 2;102(31):11011-6.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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