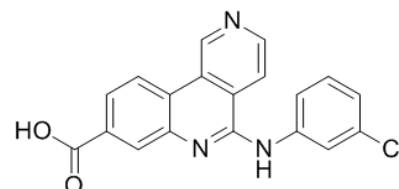


Product Name : CX4945
Cat. No. : PC-45870
CAS No. : 1009820-21-6
Molecular Formula : C₁₉H₁₂ClN₃O₂
Molecular Weight : 349.7705
Target : Casein Kinase
Solubility : DMSO: ≥ 35 mg/mL



Biological Activity

CX4945 (Silmitasertib, CX-4945) is a potent, selective, orally bioavailable, ATP-competitive inhibitor of protein kinase **Casein Kinase 2 (CK2)** with K_i of 0.38 nM, CK2α IC₅₀ of 1 nM.

CX4945 (Silmitasertib) displays good selectivity profile against a panel of 238 kinases.

CX4945 (Silmitasertib) attenuates PI3K/Akt signaling, blocks CK2-dependent HIF-1α transcription, caused cell cycle arrest and selectively induces apoptosis in cancer cells relative to normal cells.

CX4945 (Silmitasertib) exhibits antitumor efficacy in murine xenograft models.

References

Pierre F, et al. *J Med Chem.* 2011 Jan 27;54(2):635-54.

Siddiqui-Jain A, et al. *Cancer Res.* 2010 Dec 15;70(24):10288-98.

Siddiqui-Jain A, et al. *Mol Cancer Ther.* 2012 Apr;11(4):994-1005.

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

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