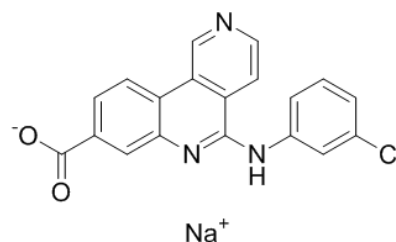


Product Name : CX-4945 sodium salt
Cat. No. : PC-45871
CAS No. : 1309357-15-0
Molecular Formula : C₁₉H₁₁ClN₃NaO₂
Molecular Weight : 371.7523
Target : Casein Kinase
Solubility : 10 mM in DMSO



Biological Activity

CX-4945 sodium salt (Silmitsertib) is a potent, selective, orally bioavailable, ATP-competitive inhibitor of protein kinase **CK2** with K_i of 0.38 nM, CK2 α IC₅₀ of 1 nM.

CX-4945 sodium salt (Silmitsertib) displays good selectivity profile against a panel of 238 kinases.

CX-4945 sodium salt (Silmitsertib) attenuates PI3K/Akt signaling, blocks CK2-dependent HIF-1 α transcription, caused cell cycle arrest and selectively induces apoptosis in cancer cells relative to normal cells.

CX-4945 sodium salt (Silmitsertib) 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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