

Product Name : Ispinesib
Synonyms : SB-715992;SB 715992;SB715992

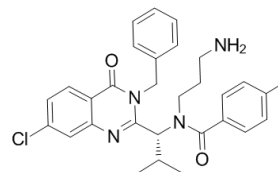
Cat No. : M14140

CAS Number : 336113-53-2

Molecular Formula : C₃₀H₃₃ClN₄O₂

Formula Weight : 517.06

Chemical Name : Benzamide, N-(3-aminopropyl)-N-[(1R)-1-[7-chloro-3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]-2-methylpropyl]-4-methyl-



Description : A potent, selective, cell-permeable, allosteric inhibitor of Eg5 (mitotic kinesin KSP) with K_i of 2.3 nM; displays >10,000-fold selectivity for Eg5 over a range of other mitotic kinesins; induces a monopolar spindle phenotype, leading to the activation of a spindle assembly checkpoint, mitotic arrest, and subsequent cell death with GI₅₀ of 20-80 nM in colon, pancreas, prostate, and lung cancer cells; demonstrates tumor regression of breast cancer cell xenografts in mice at 10 mg/kg. Breast Cancer Phase 2 Clinical

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Kinesin

Receptor : KSP(HsEg5)

Solubility : 10 mM in DMSO

SMILES : O=C(N(CCCN)[C@@H](C(N1CC2=CC=CC=C2)=NC3=C(C=CC(Cl)=C3)C1=O)C(C)C)C4=CC=C(C)C=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Good JA, et al. J Med Chem. 2013 Mar 14;56(5):1878-93. | 2. Purcell JW, et al. Clin Cancer Res. 2010 Jan 15;16(2):566-76. | 3. Luo L, et al. Nat Chem Biol. 2007 Nov;3(11):722-6. Epub 2007 Oct 7.