

Product Name : IIIM-290

Synonyms : IIIM290

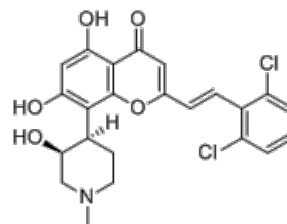
Cat No. : M13528

CAS Number : 2213468-64-3

Molecular Formula : C₂₃H₂₁Cl₂NO₅

Formula Weight : 462.32

Chemical Name : (1'R,2'S)-2-(2,6-Dichlorostyryl)-5,7-dihydroxy-8-(3-hydroxy-1-methylpiperidin-4-yl)-4H-chromen-4-one



Description : IIIM-290 is a potent, orally active cyclin-dependent kinase (CDK) inhibitor with IC₅₀ of 1.9 and 16 nM for Cdk-9/T1 and Cdk-2/A, respectively; selectively inhibits Molt-4/MIAPaCa-2 cell growth with GI₅₀ of <1 uM; inhibits the cell growth of MIAPaCa-2 cells via caspase-dependent apoptosis, demonstrates in vivo efficacy in pancreatic, colon, and leukemia xenografts at 50 mg/kg, po., without CYP/efflux-pump liability, and mutagenic/genotoxic or cardiotoxic effects.

Pathway : Angiogenesis

Target : CDK

Receptor : CDK

Solubility : —

SMILES : OC1=C2C(OC(=C/C=C/C(Cl)=CC=C3C(Cl)=CC2=O)=C([C@]4([H])[C@H](O)CN(C)CC4)C(O)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Bharate SB, et al. J Med Chem. 2018 Feb 22;61(4):1664-1687.