

KX2-391

Catalog No: tcsc0248



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

897016-82-9

Formula:

$C_{26}H_{29}N_3O_3$

Pathway:

Protein Tyrosine Kinase/RTK;Cell Cycle/DNA Damage;Cytoskeleton

Target:

Src;Microtubule/Tubulin;Microtubule/Tubulin

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

KX-01

Observed Molecular Weight:

431.53

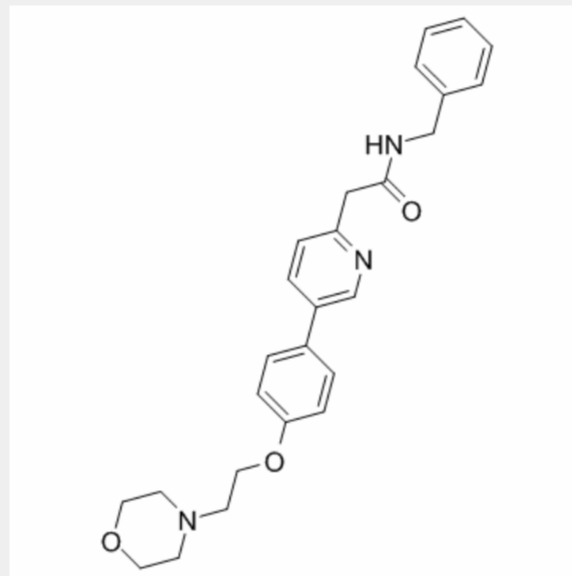
Product Description

KX2-391 is an inhibitor of **Src** that targets the peptide substrate site of Src, with **GI₅₀** of 9-60 nM in cancer cell lines.

IC50 & Target: GI50: 9 nM (Src, in HuH7 cells), 13 nM (Src, in PLC/PRF/5 cells), 26 nM (Src, in Hep3B cells), 60 nM (Src, in HepG2 cells) [1]

In Vitro: KX2-391 is a Src inhibitor that is directed to the Src substrate pocket. KX2-391 shows steep dose-response curves against Huh7 (GI₅₀=9 nM), PLC/PRF/5 (GI₅₀=13 nM), Hep3B (GI₅₀=26 nM), and HepG2 (GI₅₀=60 nM), four hepatic cell cancer (HCC) cell lines [1]. KX2-391 is found to inhibit certain leukemia cells that are resistant to current commercially available drugs, such as those derived from chronic leukemia cells with the T3151 mutation. KX2-391 is evaluated in engineered Src driven cell growth assays in NIH3T3/c-Src527F and SYF/c-Src527F cells and exhibits GI₅₀ with 23 nM and 39 nM, respectively [2].

In Vivo: Orally administered KX2-391 is shown to inhibit primary tumor growth and to suppress metastasis, in pre-clinical animal models of cancer [2].



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