

Product Datasheet

KX2-361

Catalog No. **BP-00024** · CAS **897016-26-1** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-24**

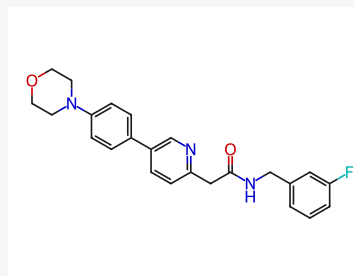
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Target Src; Microtubule/Tubulin; Apoptosis	Research area Cancer
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Molecular formula **C₂₄H₂₄FN₃O₂**

Molecular weight **405.4647**

STRUCTURE



DESCRIPTION

KX2-361 (KX-02) is a Src-kinase and tubulin polymerization inhibitor. KX2-361 shows good oral bioavailability and readily crosses the BBB in mice. KX2-361 shows anti-tumor activity and induces apoptosis of Glioblastoma (GBM) cell.

BIOLOGICAL ACTIVITY

In Vitro

KX2-361 (0-200 nM, 24-72 h) reduces autophosphorylation of Src in GL261 cells[1].

KX2-361 (0-270 nM) promotes cell cycle arrest at the G2/M phase in U87 cells. Note the dose dependent effect and virtual complete arrest at 270 nM[1].

KX2-361 (0-800 nM) induces apoptosis of U87, GL261 and T98G cell lines[1].

KX2-361 (5 μM) inhibits the in vitro assembly of tubulin polymers

In Vivo

KX2-361 significantly delays progression of orthotopic GL261 brain tumors and produces long-term survival[1].

KX2-361 demonstrates appreciable brain penetration when dosed orally to mice (20 mg/kg), with a brain C_{max} of 4025±319 ng/g observed 15 min post-dosing and an overall exposure (AUC_{last}) of 5044±355 h ng/g

SOLUBILITY

Soluble in DMSO

In vitro DMSO : 10.71 mg/mL

REFERENCES

[1]. Ciesielski MJ, et al. KX2-361: a novel orally bioavailable small molecule dual Src/tubulin inhibitor that provides long term survival in a murine model of glioblastoma. J Neurooncol. 2018 Dec;140(3):519-527.

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