Proteins

Product Data Sheet

KX2-361

Cat. No.: HY-111187 CAS No.: 897016-26-1 Molecular Formula: $\mathsf{C}_{24}\mathsf{H}_{24}\mathsf{FN}_3\mathsf{O}_2$

Molecular Weight: 405.46

Target: Src; Microtubule/Tubulin; Apoptosis

Pathway: Protein Tyrosine Kinase/RTK; Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis

Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 10.71 mg/mL (26.41 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.4663 mL	12.3317 mL	24.6633 mL	
ocock ockations	5 mM	0.4933 mL	2.4663 mL	4.9327 mL	
	10 mM	0.2466 mL	1.2332 mL	2.4663 mL	

Please refer to the solubility information to select the appropriate solvent.

DIC	DLO	CL	CAI	Ι Λ.	cti	W		v
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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 ^[1] .
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 μ M) inhibits the in vitro assembly of tubulin polymers ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	KX2\overline{\text{3361}} significantly delays progression of orthotopic GL261 brain tumors and produces long\overline{\text{Mterm}} survival^{[1]}. KX2-361 demonstrates appreciable brain penetration when dosed orally to mice (20 mg/kg), with a brain Cmax of 4025\ddots319 ng/g observed 15 min post-dosing and an overall exposure (AUClast) of 5044\ddots355 h ng/g^{[1]}. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES				
[1]. Ciesielski MJ, et al. KX2-361: Neurooncol. 2018 Dec;140(3):51		small molecule dual Src/tubulin	inhibitor that provides long term su	rvival in a murine model of glioblastoma. J
			edical applications. For research	
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