KX1-004

Cat. No.:	HY-18237			
CAS No.:	518058-84-9			
Molecular Formula:	C ₁₆ H ₁₃ FN ₂ O ₂			
Molecular Weight:	284.29			
Target:	Src			
Pathway:	Protein Tyrosine Kinase/RTK			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (351.75 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.5175 mL	17.5877 mL	35.1753 mL	
		5 mM	0.7035 mL	3.5175 mL	7.0351 mL	
		10 mM	0.3518 mL	1.7588 mL	3.5175 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.79 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil 					
	Solubility: ≥ 2.5 mg/mL (8.79 mM); Clear solution					

DIOLOGICAL ACTIV	
Description	KX1-004 is a potent and non-ATP competitive Src-PTK inhibitor with an IC ₅₀ of 40 μM. KX1-004 protects the cochlea from hazardous noise and prevents noise-induced hearing loss (NIHL) ^{[1][2]} .
In Vivo	KX1-004 (30 μM) provides significant protection against noise-induced temporary threshold shift (TTS), permanent threshold shift (PTS) and outer hair cells (OHC) loss ^[1] . KX1-004 (50 mg/kg) is effective against noise exposure ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

н́N-

-OH

REFERENCES

[1]. Harris KC, et al. Prevention of noise-induced hearing loss with Src-PTK inhibitors. Hear Res. 2005 Oct;208(1-2):14-25.

[2]. Bielefeld EC, et al. A comparison of the protective effects of systemic administration of a pro-glutathione drug and a Src-PTK inhibitor against noise-induced hearing loss. Noise Health. 2005 Oct-Dec;7(29):24-30.

Caution: Product has not been fully validated for medical applications. For research use only.

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