GLPG0259

MedChemExpress

Cat. No.:	HY-136990			
CAS No.:	959754-85-9			
Molecular Formula:	C ₂₄ H ₂₈ N ₈ O ₂			
Molecular Weight:	460.53			
Target:	Others			
Pathway:	Others			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

In Vitro

 $\mathsf{DMSO}: 3.33~\text{mg/mL}$ (7.23 mM; ultrasonic and warming and heat to $60^\circ\text{C})$

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.1714 mL	10.8571 mL	21.7141 mL
	5 mM	0.4343 mL	2.1714 mL	4.3428 mL
	10 mM			

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

Description	GLPG0259 is a ATP-competitive inhibitor of MAPK-activated protein kinase 5 (MK5) with oral activity. GLPG0259 reduces inflammation and bone destruction in a mouse model of collagen-induced arthritis. GLPG0259 also inhibited the metastasis of prostate cancer (PCa) cells ^{[1][2]} .			
IC ₅₀ & Target	MAPK-activated protein kinase 5 (MK5) ^[1]			
In Vitro	GLPG0259 reduces inflammation and release of bone degrading mediators, but did not affect phosphorylation of c-jun NH(2) -terminal protein kinase (JNK), ERK, and p38 MAP kinase ^[1] . GLPG0259 (1-5 μM; 48 h) leads to the reduction and remodeling of actin filamentation in prostate cancer (PCa) cell lines, LNCaP and PC3 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	GLPG0259 (2 mg/kg, 10 mg/kg; i.p.; twice weekly for 7 weeks) impairs tumor cells lung metastasis in SCID beige mice bearing prostate cancer (PCa) cell lines P3 cells (i.v.) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

REFERENCES

[1]. Westhovens R, et al. Oral administration of GLPG0259, an inhibitor of MAPKAPK5, a new target for the treatment of rheumatoid arthritis: a phase II, randomised, doubleblind, placebo-controlled, multicentre trial. Ann Rheum Dis. 2013 May;72(5):741-4.

[2]. Khalil MI, et al. The TLK1-MK5 Axis Regulates Motility, Invasion, and Metastasis of Prostate Cancer Cells. Cancers (Basel). 2022 Nov 22;14(23):5728.

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

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