PPI-GIT1/ β -Pix interaction-IN-1

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®

Cat. No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-152095 $C_{23}H_{21}NO_{5}$ 391.42 Ras GPCR/G Protein Please store the product under the recommended conditions in the Certificate of	
Storage.	Analysis.	Ö

BIOLOGICAL ACTIVITY				
Description PPI-GIT1/ β -Pix interaction-IN-1 is a potent and orally active GIT1/ β -Pix protein-protein interaction (PPI) inhibitor with a K _D				
Description	value of 7.7 μ M. PPI-GIT1/ β -Pix interaction-IN-1 disrupts the GIT/PIX interaction can impact the activation of the			
	downstream Rho GTPase Rad	c1 and Cdc42. PPI-GIT1/ β -Pix interaction-IN-1 inhibits metastasis of gastric cancer ^[1] .		
In Vitro	PPI-GIT1/ β -Pix interaction-IN-1 (compound 14-5-18; 0-50 μ M) inhibits the interaction between GIT1 and β -Pix in living cells ^[1]			
	PPI-GIT1/β-Pix interaction-IN-1 (0-50 μM; 24 h; MGC803 cells and MKN45 cells) inhibits gastric cancer cell invasion in a dose-			
	dependent manner and disrupts the GIT/PIX interaction can impact the activation of the downstream Rho GTPase Rac1 and Cdc42 ^[1] .			
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Western Blot Analysis ^[1]			
	Western Blot Analysis ¹¹			
	Cell Line:	MGC803 cells and MKN45 cells		
	Concentration:	0, 5, 20, and 50 μM		
	Incubation Time:	24 hours		
	Result:	Suppressed the expression of GTP-Rac1 and GTP-Cdc42 in a dose-dependent manner.		
In Vivo	PPI-GIT1/β-Pix interaction-IN-1 (compound 14-5-18; 10 and 30 mg/kg; i.g.; 24 h) inhibits gastric cancer cell invasion in female			
	nude mice with MGC803 xenografts ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
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	Animal Model:	Female nude mice with MGC803 xenografts (Four-week-old) ^[1]		
	Dosage:	10 and 30 mg/kg		
	Administration:	oral gavage, daily, for 18 days		
	Result:	Reduced the luminescence intensity in the lungs in a dose-dependent manner.		

Product Data Sheet

REFERENCES

[1]. Gu J, et, al. Construction of a synthetic methodology-based library and its application in identifying a GIT/PIX protein-protein interaction inhibitor. Nat Commun. 2022 Nov 23;13(1):7176.

[2]. Gu J, et, al. Construction of a synthetic methodology-based library and its application in identifying a GIT/PIX protein-protein interaction inhibitor. Nat Commun. 2022 Nov 23;13(1):7176.

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

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