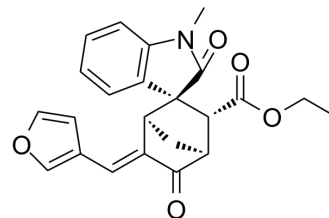


PPI-GIT1/ β -Pix interaction-IN-1

Cat. No.:	HY-152095
CAS No.:	2070916-70-8
Molecular Formula:	C ₂₃ H ₂₁ NO ₅
Molecular Weight:	391.42
Target:	Ras
Pathway:	GPCR/G Protein; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 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 Rac1 and Cdc42. PPI-GIT1/ β -Pix interaction-IN-1 inhibits metastasis of gastric cancer ^[1] .								
In Vitro	<p>PPI-GIT1/β-Pix interaction-IN-1 (compound 14-5-18; 0-50 μM) inhibits the interaction between GIT1 and β-Pix in living cells^[1].</p> <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MGC803 cells and MKN45 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 5, 20, and 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Suppressed the expression of GTP-Rac1 and GTP-Cdc42 in a dose-dependent manner.</td> </tr> </table>	Cell Line:	MGC803 cells and MKN45 cells	Concentration:	0, 5, 20, and 50 μ M	Incubation Time:	24 hours	Result:	Suppressed the expression of GTP-Rac1 and GTP-Cdc42 in a dose-dependent manner.
Cell Line:	MGC803 cells and MKN45 cells								
Concentration:	0, 5, 20, and 50 μ M								
Incubation Time:	24 hours								
Result:	Suppressed the expression of GTP-Rac1 and GTP-Cdc42 in a dose-dependent manner.								
In Vivo	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Female nude mice with MGC803 xenografts (Four-week-old)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 and 30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>oral gavage, daily, for 18 days</td> </tr> <tr> <td>Result:</td> <td>Reduced the luminescence intensity in the lungs in a dose-dependent manner.</td> </tr> </table>	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.
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.								

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA