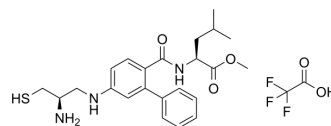


GGTI-286 TFA

Cat. No.:	HY-115489A
Molecular Formula:	C ₂₅ H ₃₂ F ₃ N ₃ O ₅ S
Molecular Weight:	543.6
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GGTI-286 TFA, a potent and cell-permeable GGTase I inhibitor, is 25-fold more potent (IC ₅₀ =2 μM) than the corresponding methyl ester of FTI-276 (HY-15873A). GGTI-286 TFA selectively inhibits geranylgeranylation of Rap1A over farnesylation of H-Ras in NIH3T3 cells (IC ₅₀ s=2 and >30 μM, respectively). GGTI-286 TFA also potently inhibits oncogenic K-Ras4B stimulation with an IC ₅₀ of 1 μM ^{[1][2]} .								
In Vitro	<p>GGTI-286 (10 μM; 2 and 4 h; CHO cells) TFA reduces nuclear localization of β-catenin and transcription dependent on β-catenin/T cell factor in mammalian cells^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CHO cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 and 4 h</td> </tr> <tr> <td>Result:</td> <td>Reduced the nuclear b-catenin amount.</td> </tr> </table>	Cell Line:	CHO cells	Concentration:	10 μM	Incubation Time:	2 and 4 h	Result:	Reduced the nuclear b-catenin amount.
Cell Line:	CHO cells								
Concentration:	10 μM								
Incubation Time:	2 and 4 h								
Result:	Reduced the nuclear b-catenin amount.								

REFERENCES

[1]. E C Lerner, et al. Disruption of oncogenic K-Ras4B processing and signaling by a potent geranylgeranyltransferase I inhibitor. J Biol Chem. 1995 Nov 10;270(45):26770-3.

[2]. Naoyuki Nishiya, et al. A zebrafish chemical suppressor screening identifies small molecule inhibitors of the Wnt/β-catenin pathway. Chem Biol. 2014 Apr 24;21(4):530-540.

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