# **Product** Data Sheet

## **GGTI-286**

Cat. No.: HY-115489 CAS No.: 171744-11-9 Molecular Formula:  $C_{23}H_{31}N_3O_3S$ Molecular Weight: 429.58 Target: Ras

Pathway: GPCR/G Protein

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 50 mg/mL (116.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3279 mL	11.6393 mL	23.2786 mL
	5 mM	0.4656 mL	2.3279 mL	4.6557 mL
	10 mM	0.2328 mL	1.1639 mL	2.3279 mL

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

### **BIOLOGICAL ACTIVITY**

Description GGTI-286, a potent and cell-permeable GGTase I inhibitor, is 25-fold more potent (IC<sub>50</sub>=2 µM) than the corresponding methyl

ester of FTI-276 (HY-15873A). GGTI-286 selectively inhibits geranylgeranylation of Rap1A over farnesylation of H-Ras in NIH3T3 cells (IC $_{50}$ s=2 and >30  $\mu$ M, respectively). GGTI-286 also potently inhibits oncogenic K-Ras4B stimulation with an IC $_{50}$ 

of  $1 \, \mu M^{[1][2]}$ .

IC50: 2 μM (Geranylgeranylation of Rap1A) in NIH3T3 cells<sup>[1]</sup> IC<sub>50</sub> & Target

In Vitro GGTI-286 (10  $\mu$ M; 2 and 4 h; CHO cells) reduces nuclear localization of  $\beta$ -catenin and transcription dependent on  $\beta$ -catenin/T cell factor in mammalian cells<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis<sup>[2]</sup>

Cell Line:	CHO cells
Concentration:	10 μΜ
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

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