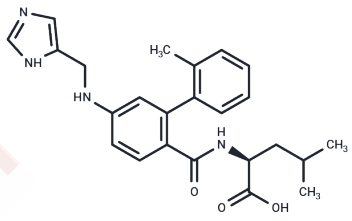
Data Sheet (Cat.No.T37446)

TargetMol

GGTI-2154

Chemical Properties



CAS No. : 251577-10-3

Formula: C24H28N4O3

Molecular Weight: 420.5

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GGTI-2154 is a potent, selective geranylgeranyltransferase I (GGTase I) inhibitor, boasting an IC50 of 21 nM and demonstrating over 200-fold selectivity against FTase (IC50=5600 nM). Its efficacy and specificity make it a valuable tool for cancer research[1] [2].
Targets(IC50)	Apoptosis,Others
In vitro	GGTI-2154 inhibits the transfer of geranylgeranyl from [3H]GGPP to H-Ras CVLL with an IC50 of 21 nM[1].
In vivo	GGTI-2154 (100 mg/kg/day; s.c. for 14 days) induces breast tumor regression in MMTV-N-Ha-Ras transgenic mice[2], and at a dosage of 50 mg/kg/day (i.p. for 50 days), it inhibits A-549 tumor growth in nude mice by 60%[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3781 mL	11.8906 mL	23.7812 mL
5 mM	0.4756 mL	2.3781 mL	4.7562 mL
10 mM	0.2378 mL	1.1891 mL	2.3781 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sun J, et, al. Antitumor efficacy of a novel class of non-thiol-containing peptidomimetic inhibitors of farnesyltransferase and geranylgeranyltransferase I: combination therapy with the cytotoxic agents cisplatin, Taxol, and gemcitabine. Cancer Res. 1999 Oct 1;59(19):4919-26.

Sun J, et, al. Geranylgeranyltransferase I inhibitor GGTI-2154 induces breast carcinoma apoptosis and tumor regression in H-Ras transgenic mice. Cancer Res. 2003 Dec 15;63(24):8922-9.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481