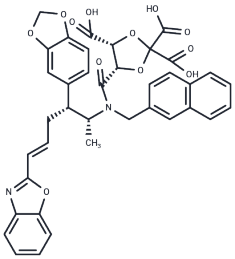
Data Sheet (Cat.No.T24188)

TargetMol

J-104871

Chemical Properties



CAS No. : 191088-19-4

Formula: C38H32N2O12

Molecular Weight: 708.67

Storage: Store at low temperature
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	J-104871 (UNII-6137X5QNJF) is a novel farnesyltransferase (FTase) inhibitor that competitively blocks Ras farnesylation in vivo, inhibits Ras processing in activated H-ras-transformed NIH3T3 cells, and suppresses tumor growth in nude mice transplanted with activated H-ras-transformed NIH3T3 cells.
Targets(IC50)	Transferase,Ras
In vitro	J 104871 inhibits Ras processing in H-ras-transformed NIH3T3 cells with an IC50 value of 3.1 μM and shows minimal inhibition of rat brain protein geranylgeranyltransferase-I or squalene synthase (SS)[1].
In vivo	n female nude mice (8 weeks old) injected with activated H-ras-transformed NIH3T3 cells, J 104871 (40 mg/kg, 80 mg/kg; intraperitoneal injection; once daily; 6 days) suppresses tumor growth in nude mice transplanted with activated H-ras-transformed NIH3T3 cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4111 mL	7.0555 mL	14.1109 mL
5 mM	0.2822 mL	1.4111 mL	2.8222 mL
10 mM	0.1411 mL	0.7055 mL	1.4111 mL
50 mM	0.0282 mL	0.1411 mL	0.2822 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

M Yonemoto, et al. J-104,871, a novel farnesyltransferase inhibitor, blocks Ras farnesylation in vivo in a farnesyl pyrophosphate-competitive manner. Mol Pharmacol. 1998 Jul;54(1):1-7.

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