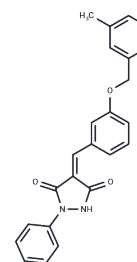


Y16

Chemical Properties

CAS No. : 429653-73-6
 Formula: C₂₄H₂₀N₂O₃
 Molecular Weight: 384.43
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Y16 is a G protein-coupled Rho GEFs inhibitor that synergizes with Rhosin/G04 to inhibit LARG-RhoA interaction, RhoA activation, and RhoA-mediated signaling. Y16 is also a specific inhibitor of LARG with a K _d of 76 nM.
Targets(IC ₅₀)	Rho,Ras
In vitro	METHODS: MCF7 breast cells were treated with Y16 (5, 10, 30, 50 μM), and the effects of Y16 on growth, migration, and invasion, as well as mammosphere formation, breast cancer cell activity, and characteristics related to tumorigenic potential were studied. RESULTS Y16 significantly inhibited the growth, migration, and invasion of MCF7 breast cancer cells; Y16-treated MCF7 cells also produced smaller size and dose-dependently reduced mammary X-sphere numbers. [2]

Solubility Information

Solubility	DMSO: 10 mg/mL (26.01 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6013 mL	13.0063 mL	26.0125 mL
5 mM	0.5203 mL	2.6013 mL	5.2025 mL
10 mM	0.2601 mL	1.3006 mL	2.6013 mL
50 mM	0.052 mL	0.2601 mL	0.5203 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.

Reference

Yoneda T, et al. The antiproliferative effects of tyrosine kinase inhibitors tyrphostins on a human squamous cell carcinoma in vitro and in nude mice. Cancer Res. 1991 Aug 15;51(16):4430-5.

Shang X,et al. Small-molecule inhibitors targeting G-protein-coupled Rho guanine nucleotide exchange factors. Proc Natl Acad Sci U S A. 2013 Feb 19;110(8):3155-60.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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