

HHQ16

Chemical Properties

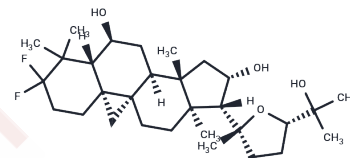
CAS No. : 2620471-66-9

Formula: C₃₀H₄₈F₂O₄

Molecular Weight: 510.7

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	HHQ16, an orally active derivative of Astragaloside IV, effectively reverses infarction-induced hypertrophy and heart failure by targeting and degrading lnc4012/lnc9456 and antagonizing their effects on G3BP2/NF-κB signaling [1].
Targets(IC50)	Others
In vitro	HHQ16 (100 nM, 6 hours) binds with high affinity to lnc9456 and induces its degradation in HL-1 mouse cardiomyocytes [1].
In vivo	HHQ16, administered orally via gavage at doses ranging from 1 to 100 mg/kg daily for four weeks, effectively reverses heart function deterioration and structural remodeling in mice caused by left anterior descending coronary artery ligation (LADL) [1]. At a dose of 10 mg/kg orally for two weeks, HHQ16 reduces high levels of lnc9456 in the hearts of AAV-lnc9456 mice and mitigates remodeling-associated changes [1]. In the LADL-induced heart failure mouse model [1], HHQ16 improves cardiac function by increasing left ventricular ejection fraction (LVEF) and left ventricular fractional shortening (LVFS), while decreasing heart size and the heart weight to body surface area ratio (HW/BSA). It counteracts hypertrophy by reducing cell volume and aligning myocytes, and lowers levels of ANP, BNP, β-MHC, along with their hypertrophic expression.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9581 mL	9.7905 mL	19.581 mL
5 mM	0.3916 mL	1.9581 mL	3.9162 mL
10 mM	0.1958 mL	0.979 mL	1.9581 mL
50 mM	0.0392 mL	0.1958 mL	0.3916 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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