

TH-Z835

Chemical Properties

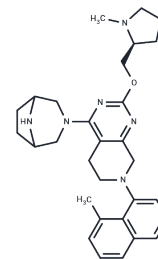
CAS No. : 2766209-50-9

Formula: C₃₀H₃₈N₆O

Molecular Weight: 498.66

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	TH-Z835 is a mutant-selective KRAS(G12D) inhibitor with an IC ₅₀ of 1.6 μM. This compound inhibits mantGMPNP/GPPNP exchange and GPPNP/mantGMPNP exchange.
Targets(IC ₅₀)	Apoptosis, Ras
In vitro	TH-Z835 reduces pERK levels in PANC-1 cells with an IC ₅₀ value less than 2.5 μM [1]. Additionally, TH-Z835 exhibits antiproliferative effects in various non-G12D mutant cancer cell lines, including 4T1 (KRAS(WT)), MIA PaCa-2 (KRAS(G12C)), CFPAC-1 (KRAS(G12V)), and HCT116 (KRAS(G13D)), by decreasing pERK and pAKT levels and inducing apoptosis, indicating off-target effects [1].
In vivo	TH-Z835 (10mg/kg; intraperitoneal injection) reduces tumor volume in a C57BL/6 mouse model. In vivo, TH-Z835 induces apoptosis and inhibits MAPK signaling [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0054 mL	10.0269 mL	20.0537 mL
5 mM	0.4011 mL	2.0054 mL	4.0107 mL
10 mM	0.2005 mL	1.0027 mL	2.0054 mL
50 mM	0.0401 mL	0.2005 mL	0.4011 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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