

YTHDF2-IN-1

Chemical Properties

CAS No. :

Formula: C₂₁H₁₄N₂O₄

Molecular Weight: 358.35

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	YTHDF2-IN-1 (Compound CK-75) is an inhibitor of YT521-B homology domain family 2 (YTHDF2) with a dissociation constant (Kd) of 26.2 μM, and it effectively blocks the interaction between YTHDF2 and m6A RNA. It suppresses colony formation in JAR cells and exhibits antiproliferative activity in various cancer cell lines, with an IC ₅₀ in the micromolar range. Additionally, YTHDF2-IN-1 induces apoptosis in K562 cells and causes cell cycle arrest at the G ₀ /G ₁ phase.
Targets(IC ₅₀)	Apoptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7906 mL	13.9528 mL	27.9057 mL
5 mM	0.5581 mL	2.7906 mL	5.5811 mL
10 mM	0.2791 mL	1.3953 mL	2.7906 mL
50 mM	0.0558 mL	0.2791 mL	0.5581 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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