

GSK4418959

## Chemical Properties

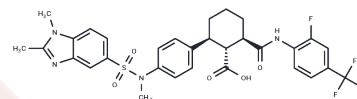
CAS No. : 3064599-36-3

Formula: C31H30F4N4O5S

Molecular Weight: 646.65

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	GSK4418959 (IDE275) is a non-covalent, reversible, selective, and orally active inhibitor of the Werner syndrome helicase (WRN helicase). GSK4418959 inhibits both ATPase and DNA unwinding activities of WRN helicase in an ATP-competitive manner. GSK4418959 is a valuable chemical tool for the study of microsatellite instability-high (MSI-H) cancers, where WRN helicase plays an essential role in maintaining genomic stability.
Targets(IC50)	DNA/RNA Synthesis
In vivo	GSK4418959 (IDE275) induces tumor regression and activates DNA damage response (DDR) markers in several MSI-H CDX and PDX models across diverse tumor types, including CRC, endometrial, and gastric cancers with varying oncogenic drivers and tumor suppressor mutations, while sparing MSS models[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (123.71 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	1.5464 mL	7.7322 mL	15.4643 mL
5 mM	0.3093 mL	1.5464 mL	3.0929 mL
10 mM	0.1546 mL	0.7732 mL	1.5464 mL
50 mM	0.0309 mL	0.1546 mL	0.3093 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

Joshua P. Taygerly, et al. Abstract 5750: Discovery of GSK4418959 (IDE275): A novel, non-covalent, reversible Werner Helicase inhibitor and a new potential therapeutic for the treatment of MSI-H cancers. Cancer Res (2025) 85 (8\_Supplement\_1): 5750.

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