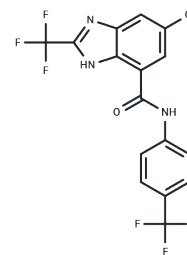


DK419

Chemical Properties

CAS No. : 2102672-22-8
 Formula: C₁₆H₈ClF₆N₃O
 Molecular Weight: 407.7
 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	DK419 is an orally active inhibitor of Wnt/ β -catenin signaling, with an IC ₅₀ of 0.19 μ M. DK419 decreases protein levels of Axin2, β -catenin, c-Myc, Cyclin D1 and Survivin. It also induces production of pAMPK.
Targets(IC ₅₀)	CDK, AMPK, c-Myc, Survivin, Wnt/beta-catenin
In vitro	DK419 inhibited the growth of CRC tumor cells in vitro and had good plasma exposure when dosed orally[1].
In vivo	DK419 inhibited the growth of patient derived CRC240 tumor explants in mice dosed orally[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), 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	2.4528 mL	12.2639 mL	24.5278 mL
5 mM	0.4906 mL	2.4528 mL	4.9056 mL
10 mM	0.2453 mL	1.2264 mL	2.4528 mL
50 mM	0.0491 mL	0.2453 mL	0.4906 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

Wang J, et al. Identification of DK419, a potent inhibitor of Wnt/ β -catenin signaling and colorectal cancer growth. Bioorg Med Chem. 2018 Nov 1;26(20):5435-5442.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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