

SSTC3

Chemical Properties

CAS No. : 1242422-09-8

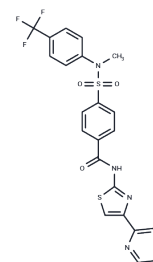
Formula: C₂₃H₁₇F₃N₄O₃S₂

Molecular Weight: 518.53

Store at low temperature

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

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| Description | SSTC3 is a casein kinase 1 α (CK1 α) activator and a potent HIF1 α inhibitor, each with a Kd of 32 nM. It has potential antitumor activity, inhibits WNT signaling, and suppresses SHH medulloblastoma tumor growth. |
| Targets(IC50) | Casein Kinase,Wnt/beta-catenin |
| In vitro | In colorectal cancer (CRC) cell lines, the results of SSTC3 (0-1 μ M; 5 days) indicate that SSTC3 decreased cell viability[1]. |
| In vivo | In five-week-old Apcmin mice, SSTC3 (10 mg/kg; intraperitoneal injection, for 1 month) inhibited the growth of tumors driven by Apc mutation[1]. |

Solubility Information

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|---------------------|--|
| Solubility | DMSO: 100 mg/mL (192.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.71 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 1.9285 mL | 9.6426 mL | 19.2853 mL |
| 5 mM | 0.3857 mL | 1.9285 mL | 3.8571 mL |
| 10 mM | 0.1929 mL | 0.9643 mL | 1.9285 mL |
| 50 mM | 0.0386 mL | 0.1929 mL | 0.3857 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

Li B, et al, Differential abundance of CK1 α provides selectivity for pharmacological CK1 α activators to target WNT-dependent tumors. *Sci Signal*. 2017 Jun 27;10(485). pii: eaak9916.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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