

XZH-5

Chemical Properties

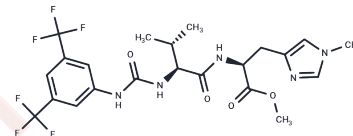
CAS No. : 1360562-98-6

Formula: C₂₂H₂₅F₆N₅O₄

Molecular Weight: 537.46

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 | XZH-5 is an inhibitor of STAT3. |
| Targets(IC50) | Others,STAT |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 1.8606 mL | 9.303 mL | 18.606 mL |
| 5 mM | 0.3721 mL | 1.8606 mL | 3.7212 mL |
| 10 mM | 0.1861 mL | 0.9303 mL | 1.8606 mL |
| 50 mM | 0.0372 mL | 0.1861 mL | 0.3721 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

Daka P, Liu A, Karunaratne C, Csatory E, Williams C, Xiao H, Lin J, Xu Z, Page RC, Wang H. Design, synthesis and evaluation of XZH-5 analogues as STAT3 inhibitors. *Bioorg Med Chem*. 2015 Mar 15;23(6):1348-55. doi: 10.1016/j.bmc.2015.01.025. Epub 2015 Jan 22. PubMed PMID: 25698618.

Liu A, Liu Y, Jin Z, Hu Q, Lin L, Jou D, Yang J, Xu Z, Wang H, Li C, Lin J. XZH-5 inhibits STAT3 phosphorylation and enhances the cytotoxicity of chemotherapeutic drugs in human breast and pancreatic cancer cells. *PLoS One*. 2012;7(10):e46624. doi: 10.1371/journal.pone.0046624. Epub 2012 Oct 3. PubMed PMID: 23056374; PubMed Central PMCID: PMC3463519.

Liu A, Liu Y, Xu Z, Yu W, Wang H, Li C, Lin J. Novel small molecule, XZH-5, inhibits constitutive and interleukin-6-induced STAT3 phosphorylation in human rhabdomyosarcoma cells. *Cancer Sci*. 2011 Jul;102(7):1381-7. doi: 10.1111/j.1349-7006.2011.01932.x. Epub 2011 May 5. PubMed PMID: 21435102.

Liu Y, Liu A, Xu Z, Yu W, Wang H, Li C, Lin J. XZH-5 inhibits STAT3 phosphorylation and causes apoptosis in human hepatocellular carcinoma cells. *Apoptosis*. 2011 May;16(5):502-10. doi: 10.1007/s10495-011-0578-0. PubMed PMID: 21311975.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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