

Product Name : XZH-5

Synonyms : XZH5

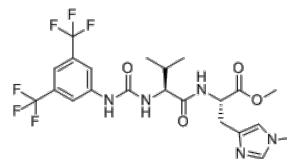
Cat No. : M11481

CAS Number : 1360562-98-6

Molecular Formula : C₂₂H₂₅F₆N₅O₄

Formula Weight : 537.46

Chemical Name : methyl Na-(((3,5-bis(trifluoromethyl)phenyl)carbamoyl)-L-valyl)-Nt-methyl-L-histidinate



Description : XZH-5 is a small molecule that inhibits constitutive and interleukin-6-induced STAT3 phosphorylation, inhibits STAT3 DNA binding ability and downregulation of STAT3 downstream genes; inhibits downregulation of STAT3 downstream genes, such as Bcl-2, Bcl-xL, Cyclin D1 and Survivin, demonstrates blockade of STAT3 phosphorylation in human rhabdomyosarcoma cells with apoptosis and suppresses colony-forming ability and cell migration; blocks IL-6-induced STAT3 phosphorylation and nuclear translocation but not the stimulation of STAT1 phosphorylation by IFN-γ.

Pathway : JAK/STAT Signaling

Target : STAT

Receptor : STAT

Solubility : —

SMILES : O=C(OC)[C@@H](N(NC(NC1=CC(C(F)(F)F)=CC(C(F)(F)F)=C1)=O)C(CC(C)C)=O)CC2=CN(C)C=N2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Liu Y, et al. Apoptosis. 2011 May;16(5):502-10. | 2. Liu A, et al. Cancer Sci. 2011 Jul;102(7):1381-7. | 3. Liu A, PLoS One. 2012;7(10):e46624. | 4. Daka P, et al. Bioorg Med Chem. 2015 Mar 15;23(6):1348-55.