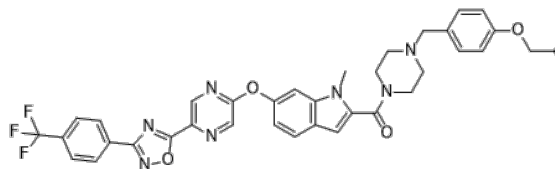


Product Name : YY002
Cat. No. : PC-22095
CAS No. : 2591440-75-2
Molecular Formula : C₃₆H₂₉F₆N₇O₄
Molecular Weight : 737.66
Target : STAT
Solubility : 10 mM in DMSO



CAS: 2591440-75-2

Biological Activity

YY002 is a potent, selective **STAT3** inhibitor, selectively binds to the STAT3 Src Homology 2 (SH2) domain (KD=2.24 nM) over other STAT members, inhibits STAT3 Tyr705 and Ser727 phosphorylation. YY002 strongly suppresses STAT3 nuclear and mitochondrial functions in STAT3-dependent cells. YY002 also shows no obvious inhibition on tyrosine kinases or serine kinases. YY002 potently suppresses pancreatic cancer cells with high pSTAT3 (Tyr705 and Ser727) with IC₅₀ of 3-11 nM. YY002 inhibits colony formation of multiple STAT3-dependent PDAC cells at concentration of 1 to 10 nM. YY002 inhibits STAT3 Ser727 phosphorylation and mitochondrial OXPHOS. YY002 (5 mg/kg/d to 20 mg/kg/d, oral) inhibits pancreatic cancer growth in PANC-1 tumor mouse xenograft models.

References

Huang Chen, et al. **ACS Cent Sci.** 2024 Feb 10;10(3):579-594.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com