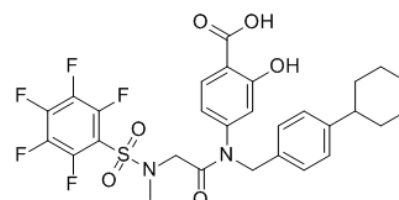


Product Name : BP-1-102
Cat. No. : PC-42174
CAS No. : 1334493-07-0
Molecular Formula : C₂₉H₂₇F₅N₂O₆S
Molecular Weight : 626.5915
Target : STAT
Solubility : DMSO: ≥ 33 mg/mL



Biological Activity

BP-1-102 is an orally bioavailable, small-molecule inhibitor of **STAT3** with K_d of 504 nM.

BP-1-102 blocks Stat3-pTyr peptide interactions and Stat3 activation at 4-6.8 μM, and selectively inhibits growth, survival, migration, and invasion of Stat3-dependent tumor cells.

BP-1-102 suppresses the expression of c-Myc, Cyclin D1, Bcl-xL, Survivin, VEGF, and KLF8, blocks Stat3-NF-κB cross-talk, and enhances E-cadherin expression.

BP-1-102 inhibits growth of human breast and lung tumor xenografts.

References

Zhang X, et al. *Proc Natl Acad Sci U S A*. 2012 Jun 12;109(24):9623-8.

De Simone V, et al. *Oncogene*. 2015 Jul;34(27):3493-503.

Resetca D, et al. *J Biol Chem*. 2014 Nov 21;289(47):32538-47.

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

E-mail: tech@probechem.com