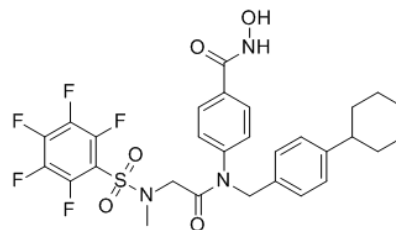


**Product Name** : SH5-07  
**Cat. No.** : PC-42175  
**CAS No.** : 1456632-41-9  
**Molecular Formula** : C<sub>29</sub>H<sub>28</sub>F<sub>5</sub>N<sub>3</sub>O<sub>5</sub>S  
**Molecular Weight** : 625.6068  
**Target** : STAT  
**Solubility** : DMSO: 10 mM



### Biological Activity

SH5-07 (SH-5-07, SH 5-07) is a potent, selective small-molecule **STAT3** inhibitor with IC<sub>50</sub> of 3.9 μM.

SH5-07 preferentially inhibits Stat3:Stat3 DNA-binding activity, shows no inhibition of Stat1:Stat1 or Stat5:Stat5 activity.

SH5-07 exerts pY705 Stat3 inhibition in human glioma, breast, and prostate cancer cells, blocks STAT3-dependent gene transcription along with Bcl-2, Bcl-xL, Mcl-1, cyclin D1, c-Myc, and survivin expression.

SH5-07 decreases the proliferation and viability of glioma, breast, and prostate cancer cells and v-Src-transformed murine fibroblasts harboring constitutively active STAT3.

SH5-07 effectively inhibits tumor growth in mouse xenograft models of glioma and breast cancer.

### References

Yue P, et al. **Cancer Res.** 2016 Feb 1;76(3):652-63.

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

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