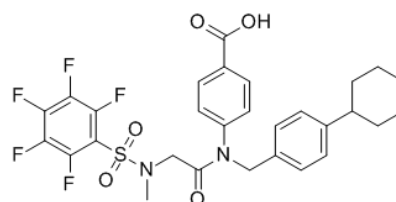


**Product Name** : SH-4-54  
**Cat. No.** : PC-45109  
**CAS No.** : 1456632-40-8  
**Molecular Formula** : C<sub>29</sub>H<sub>27</sub>F<sub>5</sub>N<sub>2</sub>O<sub>5</sub>S  
**Molecular Weight** : 610.5921  
**Target** : STAT  
**Solubility** : 10 mM in DMSO



### Biological Activity

SH-4-54 is a potent, BBB permeable, nonphosphorylated **STAT3** inhibitor that strongly binds to STAT3 protein with K<sub>d</sub> of 300 nM.

SH-4-54 potently kills glioblastoma brain cancer stem cells (BTSCs) and effectively suppresses STAT3 phosphorylation and its downstream transcriptional targets at low nM concentrations.

SH-4-54 potently suppresses glioma tumor growth, and inhibits pSTAT3 in vivo.

### References

Haftchenary S, et al. *ACS Med Chem Lett.* 2013 Sep 8;4(11):1102-7.

Arpin CC, et al. *Mol Cancer Ther.* 2016 May;15(5):794-805.

Linher-Melville K, et al. *PLoS One.* 2016 Aug 11;11(8):e0161202.

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

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