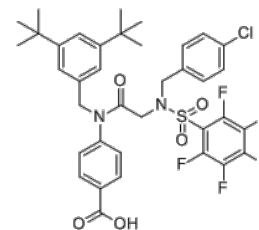


Product Name : AC-4-130
Cat. No. : PC-62556
CAS No. : 1834571-82-2
Molecular Formula : C₃₇H₃₆ClF₅N₂O₅S
Molecular Weight : 751.206
Target : STAT
Solubility : 10 mM in DMSO



Biological Activity

AC-4-130 is a novel, potent **STAT5 SH2 domain** inhibitor, binds to and efficiently blocks STAT5 activation and subsequent transcriptional activity, shows high selectivity for STAT5 over STAT1 and STAT3.

AC-4-130 disrupts STAT5 activation, dimerization, nuclear translocation, and STAT5-dependent gene transcription.

AC-4-130 substantially impairs the proliferation and clonogenic growth of human AML cell lines and primary FLT3-ITD+ AML patient cells in vitro and in vivo.

AC-4-130 synergistically increases the cytotoxicity of the JAK1/2 inhibitor Ruxolitinib and the p300/pCAF inhibitor Garcinol in vivo.

References

Wingelhofer B, et al. *Leukemia*. 2018 Feb 2. doi: 10.1038/s41375-017-0005-9.

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

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