

AC-4-130

## Chemical Properties

CAS No. : 1834571-82-2

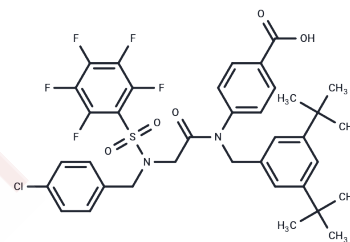
Formula: C<sub>37</sub>H<sub>36</sub>ClF<sub>5</sub>N<sub>2</sub>O<sub>5</sub>S

Molecular Weight: 751.2

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AC-4-130 is a direct STAT5 SH2 domain inhibitor that can disrupt STAT5 activation, dimerization, nuclear translocation, and STAT5-dependent gene transcription, inducing cell cycle arrest and apoptosis in leukemia cells, and can be used for the study of acute myeloid leukemia (AML).
Targets(IC50)	Apoptosis, Cell Cycle Arrest, STAT
In vitro	AC-4-130 (0.1–100 μM; 72 hours) induces apoptosis in MV4-11 or MOLM-13 cells in a dose- and time-dependent manner[1]. AC-4-130 (2/5 μM; 72 hours) induced cell cycle arrest, with increased G0/G1-arrested cells and reduced S or G2/M phase cells [1]. AC-4-130 (0.5–2 μM; 24 hours) resulted in decreased pY-STAT5 levels in both cytoplasm and nucleus [1].

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble) DMSO: 80 mg/mL (106.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3312 mL	6.656 mL	13.312 mL
5 mM	0.2662 mL	1.3312 mL	2.6624 mL
10 mM	0.1331 mL	0.6656 mL	1.3312 mL
50 mM	0.0266 mL	0.1331 mL	0.2662 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Bettina Wingelhofer, et al. Pharmacologic inhibition of STAT5 in acute myeloid leukemia. *Leukemia*. 2018 May;32(5):1135-1146.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481