

Product Data Sheet

Product Name: AC-4-130

Cat. No.: GC62272

Chemical Properties

Cas. No. 1834571-82-2

Formula $C_{37}H_{36}ClF_5N_2O_5S$

M.Wt 751.2

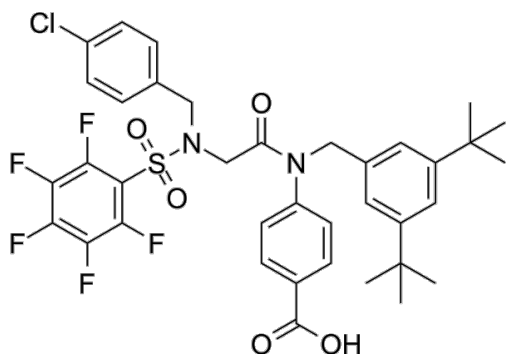
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

AC-4-130 is a potent STAT5 SH2 domain inhibitor. AC-4-130 directly binds to STAT5 and disrupts STAT5 activation, dimerization, nuclear translocation, and STAT5-dependent gene transcription. AC-4-130 induces cell cycle arrest and apoptosis in FLT3-ITD-driven leukemic cells. AC-4-130 has anti-cancer activity and can efficiently block pathological levels of STAT5 activity in acute myeloid leukemia (AML)[1].

AC-4-130 (0.1-100 μM; 72 hours) leads to a significant increase in apoptosis in a dose-dependent and time-dependent manner in MV4-11 or MOLM-13 cells[1]. AC-4-130 (2, 5 μM; 72 hours) induces

Caution: Product has not been fully validated for medical applications. For research use only.

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cell cycle arrest with an increase in G0/G1 arrested cells and a concomitant reduction in cells in S or G2/M[1]. AC-4-130 (0.5-2; 24 hours) reveals reduced pY-STAT5 levels both in the cytoplasm and nucleus[1]. AC-4-130-mediated STAT5 inhibition efficiently blocks the proliferation and clonogenic growth of primary human AML cells, while healthy CD34+ cells are less sensitive[1].

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

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