



Data Sheet

Research Use Only

Compound Name

CYT387

Catalog Number

SM44

Activity

CYT387 is an ATP competitive inhibitor of JAK1 and JAK2 (Janus kinases).

Purity

>99%

Formula

$C_{23}H_{22}N_6O_2$

Solubility

DMSO

Alternative Names

CYT 11387, Cyt-387, N-(Cyanomethyl)-4-[2-[[4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]benzamide

Effect

CYT387 inhibits the proliferation of parental Ba/F3 cells (Ba/F3-wt) stimulated by IL-3. Furthermore, CYT387 also causes the inhibition of cell proliferation in cell lines constitutively activated by JAK2 or MPL signaling. CYT387 has been shown to inhibit erythroid colony growth *in vitro*. CYT387 inhibits erythropoiesis from induced pluripotent stem cells (iPSC), but has less inhibitory effect on the self-renewal of CD34+ hematopoietic progenitors.

CAS

1056634-68-4

Molecular Weight

414.46

Stability

Stable at -20 °C. Keep away from direct sunlight.

References

1. Ye, Z., et al. 2014. Stem Cells. 32(1): 269-278. PMID: 24105986
2. Barosi, G. 2012. Expert Rev Hematol. 5(3): 313-324. PMID: 22780211