

JAK2-IN-13

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	JAK2-IN-13 is a potent and orally active JAK2 inhibitor with an IC50 of 54.7 nM. It downregulates the expression of p-STAT3 and p-STAT5 and exhibits good bioavailability. JAK2-IN-13 effectively suppresses recombinant human erythropoietin-induced extramedullary erythropoiesis as well as polycythemia vera. It is used in the study of myeloproliferative neoplasms.
Targets(IC50)	STAT,JAK
In vitro	JAK2-IN-13 (Compound 11) exhibits potent inhibitory activity against HEL and SET-2 cells at concentrations of 0.011-25 μ M over 72 hours, with IC50 values of 0.57 μ M and 1.07 μ M, respectively. Additionally, JAK2-IN-13 (0-10 μ M, 3 h) significantly inhibits the JAK2 downstream signaling pathway in HEL cells, reducing the expression of p-STAT3 and p-STAT5.
In vivo	JAK2-IN-13 (Compound 11) administered orally at 50-100 mg/kg once daily for 4 consecutive days, inhibited extramedullary erythropoiesis and polycythemia vera in the reho-induced erythrocytosis model.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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