

JAK-IN-40

Chemical Properties

CAS No. :

Formula: C₂₆H₃₂N₈O₃S

Molecular Weight: 536.65

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	JAK-IN-40 (Compound 46) is an inhibitor of JAK, effectively targeting JAK1, JAK2, and JAK3 with IC ₅₀ values of 0.022, 0.759, and 1.601 μM, respectively. It reduces the phosphorylation of STAT3 and inhibits the proliferation of cancer cells Ba/F3 and JAK1-TEL Ba/F3 with GI ₅₀ values of 0.614 μM and 0.193 μM. JAK-IN-40 arrests cell cycle progression at the G ₂ /M phase in H1975 and H2087 cells, leading to apoptosis. Additionally, JAK-IN-40 exhibits a synergistic anti-tumor effect when used in combination with Osimertinib.
Targets(IC ₅₀)	Apoptosis,STAT,JAK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8634 mL	9.3171 mL	18.6341 mL
5 mM	0.3727 mL	1.8634 mL	3.7268 mL
10 mM	0.1863 mL	0.9317 mL	1.8634 mL
50 mM	0.0373 mL	0.1863 mL	0.3727 mL

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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