

Product Name : JAK2 inhibitor G5-7

Synonyms : G5-7

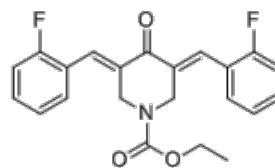
Cat No. : M16724

CAS Number : 939681-36-4

Molecular Formula : C₂₂H₁₉F₂NO₃

Formula Weight : 383.40

Chemical Name : ethyl 3,5-bis((E)-2-fluorobenzylidene)-4-oxopiperidine-1-carboxylate



Description : JAK2 inhibitor G5-7 is a small molecule, allosteric JAK2 inhibitor that selectively inhibits JAK2-mediated phosphorylation and activation of EGFR and STAT3 by binding to JAK2; demonstrates inhibitor of U87MG/EGFR and U87MG/EGFR^{MII} with IC₅₀ of 0.75 and 1.0 uM, arrests cell cycle at G2 phase in both U87MG/EGFR^{MII} and U87MG/EGFR^{MII}/PTEN cells; significantly inhibits EGFR Tyr1068 phosphorylation but has no effect on EGFR Tyr1045 phosphorylation; decreases GBM tumor volume and extends the life span of tumor-bearing nude mice after oral administration.

Pathway : Angiogenesis

Target : JAK

Receptor : JAK

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. He K, et al. Sci Signal. 2013 Jul 9;6(283):ra55.