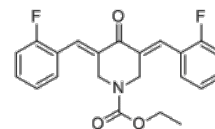


Product Name : JAK2 inhibitor G5-7
Cat. No. : PC-35502
CAS No. : 939681-36-4
Molecular Formula : C₂₂H₁₉F₂NO₃
Molecular Weight : 383.395
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

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.

G5-7 demonstrates inhibitor of U87MG/EGFR and U87MG/EGFRvIII with IC₅₀ of 0.75 and 1.0 μM, arrests cell cycle at G2 phase in both U87MG/EGFRvIII and U87MG/EGFRvIII/PTEN cells.

G5-7 significantly inhibits EGFR Tyr1068 phosphorylation but has no effect on EGFR Tyr1045 phosphorylation.

G5-7 decreases GBM tumor volume and extends the life span of tumor-bearing nude mice after oral administration.

References

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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