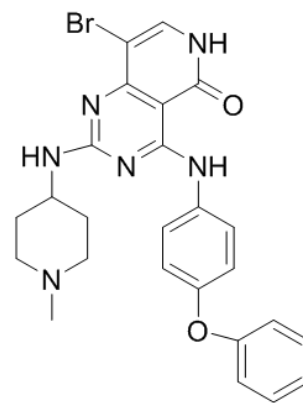


Product Name : G-749
Cat. No. : PC-42981
CAS No. : 1457983-28-6
Molecular Formula : C₂₅H₂₅BrN₆O₂
Molecular Weight : 521.409
Target : FLT3
Solubility : DMSO: 25 mg/mL



Biological Activity

G-749 is a novel potent, broad-spectrum FLT-3 inhibitor with IC₅₀ of 0.4 and 0.6 nM against wt FLT-3 and FLT3-D835Y mutant, respectively; G-749 also shows potent and sustained inhibition of the FLT3 mutants including FLT3-ITD, FLT3-ITD/N676D, and FLT3-ITD/F691L in cellular assays; also inhibits RTKs Ret, FLT1, Axl, Fms, FGFR-1/3 (IC₅₀=9-30 nM), and Aurora A and B (IC₅₀=6-24 nM) inhibits autophosphorylation of FLT3 with IC₅₀ of <8 nM in FLT3-WT bearing RS4-11 and in FLT3-ITD harboring MV4-11 and Molm-14 cells; shows potent antileukemic activity in patient blasts harboring FLT3-ITD, FLT3-TKD, and FLT3-ITD/TKD mutations through inhibition of pFLT3 and pERK1/2 both in vitro and in vivo, overcomes drug resistance of AC220 and/or PKC412.

References

Lee HK, et al. Blood. 2014 Apr 3;123(14):2209-19.

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

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