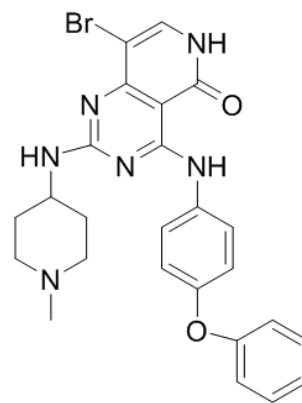


**Product Name** : G-749  
**Cat. No.** : PC-42981  
**CAS No.** : 1457983-28-6  
**Molecular Formula** : C<sub>25</sub>H<sub>25</sub>BrN<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 521.409  
**Target** : FLT3  
**Solubility** : DMSO: 25 mg/mL



### Biological Activity

Denfivontinib (G-749) is a potent, broad-spectrum **FLT-3** inhibitor with IC<sub>50</sub> 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.

G-749 also inhibits RTKs Ret, FLT1, Axl, Fms, FGFR-1/3 (IC<sub>50</sub>=9-30 nM), and Aurora A and B (IC<sub>50</sub>=6-24 nM) inhibits autophosphorylation of FLT3 with IC<sub>50</sub> of <8 nM in FLT3-WT bearing RS4-11 and in FLT3-ITD harboring MV4-11 and Molm-14 cells.

G-749 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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