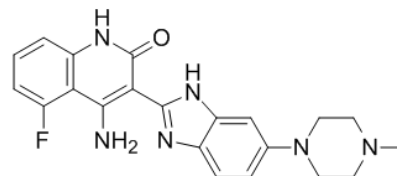


Product Name : Dovitinib
Cat. No. : PC-45899
CAS No. : 405169-16-6
Molecular Formula : C₂₁H₂₁N₆O
Molecular Weight : 392.4294
Target : FGFR
Solubility : DMSO: 25 mg/mL



Biological Activity

Dovitinib (CHIR-258, TKI258) is a multitargeted RTK inhibitor of class III, IV, and V RTKs with IC₅₀ of 1/2/36/8/9 nM for **FLT3/c-KIT/c-Fms/FGFR1/FGFR3**, respectively.

Dovitinib (CHIR-258, TKI258) also inhibits VEGFR1/2/3 (IC₅₀=10/13/8 nM) and PDGFRβ/α (IC₅₀=27/210 nM).

Dovitinib (CHIR-258, TKI258) selectively inhibits the growth of B9 cells and human myeloma cell lines expressing wild-type (WT) or activated mutant FGFR3.

Dovitinib (CHIR-258, TKI258) inhibits downstream ERK 1/2 phosphorylation and induces cytostatic and cytotoxic effects; demonstrates activity in a xenograft mouse model of FGFR3 MM; orally active.

References

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Lopes de Menezes DE, et al. *Clin Cancer Res*. 2005 Jul 15;11(14):5281-91.

Xin X, et al. *Clin Cancer Res*. 2006 Aug 15;12(16):4908-15.

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

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