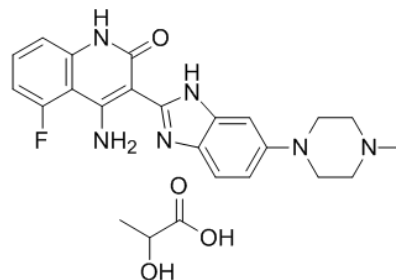


Product Name : Dovitinib lactate
Cat. No. : PC-42452
CAS No. : 692737-80-7
Molecular Formula : C₂₄H₂₇FN₆O₄
Molecular Weight : 482.5073832
Target : FGFR
Solubility : DMSO: ≥ 30 mg/mL



Biological Activity

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

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

Dovitinib inhibits downstream ERK 1/2 phosphorylation and induces cytostatic and cytotoxic effects.

Dovitinib demonstrates activity in a xenograft mouse model of FGFR3 MM; orally active.

References

Trudel S, et al. **Blood**. 2005 Apr 1;105(7):2941-8.

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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