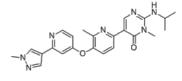


Data Sheet

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Product Name: VimseltinibCat. No.: PC-38376CAS No.: 1628606-05-2Molecular Formula: C23H25N7O2Molecular Weight: 431.500Target: c-Fms (CSF1R)Solubility: 10 mM in DMSO



Biological Activity

Vimseltinib (DCC-3014) is a potent, selective, orally active inhibitor of colony-stimulating factor 1 receptor (**CSF1R/c-Fms**), inhibits CSF1R phosphorylated juxtamembrane domain (JMD) with IC50 of 2.8 nM, 100-fold less potency against fully phosphorylated CSF1R (IC50=290 nM).

Vimseltinib (DCC-3014) exhibits approximately 20-fold weaker affinity for unphosphorylated CSF1R (Kd=79 nM) versus the JMD phosphorylated form (Kd=3.6 nM).

Vimseltinib (DCC-3014) displays high selectivity (>100-fold) for CSF1R kinase against a panel of approximately 300 human kinases

Vimseltinib (DCC-3014) potently inhibited CSF1-stimulated phosphorylation of CSF1R in the human THP1 mononuclear cell line with IC50 of 19 nM, inhibited proliferation of M-NFS-60 cells with IC50 of 10.1 nM.

Vimseltinib (DCC-3014) inhibited CSF1R signaling in monocytes in human whole blood with an average IC50 of 403 nM, as measured the levels of phosphorylated ERK (downstream of CSF1R activation).

Vimseltinib (DCC-3014) inhibited tumor growth and bone degradation in mouse cancer models.

References

Smith BD, et al. *Mol Cancer Ther*. 2021 Nov;20(11):2098-2109.

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

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