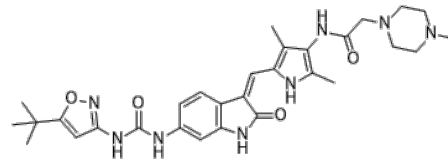


Product Name : CSF1R-IN-3
Cat. No. : PC-24733
CAS No. : 2760584-90-3
Molecular Formula : C₃₀H₃₈N₈O₄
Molecular Weight : 574.69
Target : c-Fms (CSF1R)
Solubility : 10 mM in DMSO



CAS: 2760584-90-3

Biological Activity

CSF1R-IN-3 is a potent, selective and orally bioavailable CSF-1R inhibitor with IC₅₀ of 2.1 nM.

CSF1R-IN-3 concentration-dependently inhibited the phosphorylation of CSF-1R and AKT in both BMDMs and PMA-differentiated THP-1 cells.

CSF1R-IN-3 shows high binding affinity to CSF-1R with a dissociation constant (K_D) of 3.4 nM in SPR assays.

CSF1R-IN-3 (30 and 100 nM) potently inhibits the migration of macrophages.

CSF1R-IN-3 (30 and 100 nM) could downregulate the messenger RNA (mRNA) expressions of Il10, Arg1, Chil3, Retnla, and Vegf and upregulate the expressions of Il12, Tnf, Il6, and Nos2.

CSF1R-IN-3 inhibits the progression of colorectal cancer by suppressing the migration of macrophages, reprogramming M2-like macrophages to the M1 phenotype, and enhancing the antitumor immunity.

References

Qi Lv, et al. J Med Chem. 2021 Dec 9;64(23):17184-17208.

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

E-mail: tech@probechem.com