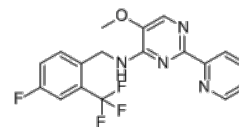


Product Name : AS2676293
Cat. No. : PC-21026
CAS No. : 1393999-79-5
Molecular Formula : C₁₈H₁₄F₄N₄O
Molecular Weight : 378.33
Target : NF-κB
Solubility : 10 mM in DMSO



CAS: 1393999-79-5

Biological Activity

AS2676293 (AS 2676293) is an orally active small-molecule receptor activator of nuclear factor-κB ligand (**RANKL**) inhibitor, inhibits RANKL-induced osteoclastogenesis using RAW264 cells with IC₅₀ of 0.19 μM.

AS2676293 (0.3-3 mg/kg, oral) inhibited bone loss significantly in RANKL-induced osteopenic mice.

AS2676293 markedly inhibited bone metastasis of human breast cancer cells MDA-MB-231-5a-D-Luc2 as well as tumour-induced osteolysis.

AS2676293 suppressed RANKL-mediated tumour migration in the transwell assay and inhibited bone metastasis of the murine cell line B16F10, which is known not to trigger osteoclast activation.

References

Junji Miyata, et al. *Bioorg Med Chem Lett*. 2012 Sep 1;22(17):5681-4.

Vagelis Rinotas, et al. *Int J Mol Sci*. 2023 Jul 10;24(14):11290.

Nakai Y, et al. *Bone Res*. 2019 Jan 3;7:1. doi: 10.1038/s41413-018-0036-5.

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

E-mail: tech@probechem.com