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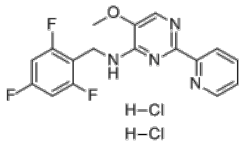
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AS2690168
Cat. No.	:	PC-73378
CAS No.	:	1393899-47-2
Molecular Formula	:	$C_{17}H_{15}Cl_2F_3N_4O$
Molecular Weight	:	419.229
Target	:	NF-κB
Solubility	:	10 mM in DMSO



Biological Activity

AS2690168 is a novel orally available, selective **RANKL signal transductio**n inhibitor, reduces TRAP staining of sRANKL-stimulated RAW264 cells with IC50 of 0.28 uM, suppresses RANKL-induced osteoclastogenesis.
AS2690168 suppressed soluble RANKL (sRANKL)-induced NFATc1 mRNA expression in RAW264 cells with 37.1% and 98.9% inhibiyion at 0.3 and 3.0 uM, respectively.
AS2690168 also suppressed calcium release from parathyroid hormone-stimulated mouse calvaria with an IC50 value of 0.46 uM.
AS2690168 (3 mg/kg, p.o.) completely suppressed the decrease in femoral bone mineral content in an sRANKL-induced osteopenic mice model, also significantly suppressed the decrease in femoral bone mineral density and increase in serum tartrate-resistant acid phosphatase-5b levels in ovariectomized rats at doses of 0.3, 1 and 3 mg/kg.
AS260168 suppressed the increase in urine deoxypyridinoline in a rat prednisolone-induced osteoporosis model at 10 mg/kg.

References

Morikawa N, et al. ***Eur J Pharmacol.*** 2022 Apr 6:174941.

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

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