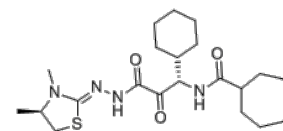


Product Name : ONO-5334
Cat. No. : PC-61421
CAS No. : 868273-90-9
Molecular Formula : C₂₁H₃₄N₄O₄S
Molecular Weight : 438.59
Target : Cathepsin
Solubility : 10 mM in DMSO



Biological Activity

ONO-5334 is a potent, selective, orally active inhibitor of **cathepsin K** (CTSK) with K_i of 0.1 nM, 0.049 nM and 0.85 nM for human, rabbit and rat cathepsin K, respectively.

ONO-5334 shows less or no potency for human cathepsin S/L/B/C (K_i=0.83/1.7/32/2500 nM).

ONO-5334 inhibits human osteoclasts bone resorption in vitro at a concentration more than 100 fold lower than that of alendronate.

ONO-5334 reduces plasma calcium level increased by PTHrP in thyroparathyroidectomized rats, decreases serum and urine C-telopeptide of type I collagen level.

ONO 5334 is an effective antiviral compound against **SAR-COV-2** virus activity with EC₅₀ of 500 nM.

References

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Ochi Y, et al. **J Bone Miner Metab**. 2014 Nov;32(6):645-52.

Nagase S, et al. **Br J Clin Pharmacol**. 2012 Dec;74(6):959-70.

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

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