

Product Name	: ONO-5334
Synonyms	: ONO5334; ONO 5334
Cat No.	: M16307
CAS Number	: 868273-90-9
Molecular Formula	: C ₂₁ H ₃₄ N ₄ O ₄ S
Formula Weight	: 438.59
Chemical Name	: N-((S)-1-cyclohexyl-3-(2-((R,Z)-3,4-dimethylthiazolidin-2-ylidene)hydrazinyl)-2,3-dioxopropyl)cycloheptanecarboxamide
Description	A potent, selective, orally active inhibitor of cathepsin K with K_i of 0.1 nM, 0.049 nM and 0.85 nM for human, rabbit and rat cathepsin K, respectively; shows less or no potency for human cathepsin S/L/B/C (K_i=0.83/1.7/32/2500 nM); inhibits human osteoclasts bone resorption in vitro at a concentration more than 100 fold lower than that of alendronate; reduces plasma calcium level increased by PTHrP in thyroparathyroidectomized rats, decreases serum and urine C-telopeptide of type I collagen level. Osteoporosis Phase 2 Discontinued
Pathway	: Metabolic Enzyme/Protease
Target	: Cathepsin
Receptor	: Cathepsin
Solubility	: —
SMILES	: <chem>O=C(N/N=C1SC[C@@H](C)N1C)C([C@@H](NC(C2CCCCC2)=O)C3CCOCC3)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Ochi Y, et al. Bone. 2011 Dec;49(6):1351-6. | 2. Ochi Y, et al. Bone. 2014 Aug;65:1-8. doi: 10.1016/j.bone.2014.04.023. | 3. Ochi Y, et al. J Bone Miner Metab. 2014 Nov;32(6):645-52. | 4. Nagase S, et al. Br J Clin Pharmacol. 2012 Dec;74(6):959-70.