

ONO-5334

Chemical Properties

CAS No. : 868273-90-9

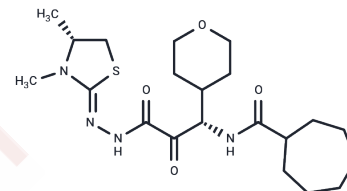
Formula: C₂₁H₃₄N₄O₄S

Molecular Weight: 438.58

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ONO-5334 is a selective, orally active and potent histone K inhibitor with anti-SAR-COV-2 and anti-bone resorption activity for the study of osteoporosis.
Targets(IC50)	Cysteine Protease,SARS-CoV
In vitro	ONO-5334 inhibits human cathepsin S, L, and B, and porcine calpain I and II (K _i : 0.83 nM, 1.7 nM, 32 nM, 82 nM, and 69 nM, respectively). ONO-5334 (0.1-1 μM; 24 hours) also inhibits human osteoclast-mediated bone resorption, effectively decreasing the osteoclast-mediated release of CTX from bone slices in a dose-dependent manner[1].
In vivo	ONO-5334 (oral; 0.3-30 mg/kg; 7 consecutive days) at doses of 3 mg/kg or 30 mg/kg significantly reduced CTX (bone resorption marker) concentrations. ONO-5334 (oral; 0.12-15 mg/kg; single dose) dose-dependently reduced PTHrP-induced elevation of plasma calcium, with a significant effect at 15 mg/kg (86% reduction). It also reduced the PTHrP-induced increase in plasma CTX levels in TPTX rats by 90% at 15 mg/kg. On day 7, ONO-5334 (3 mg/kg and 30 mg/kg) reduced serum CTX concentrations by 62% and 79%, respectively[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (68.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2801 mL	11.4004 mL	22.8009 mL
5 mM	0.456 mL	2.2801 mL	4.5602 mL
10 mM	0.228 mL	1.140 mL	2.2801 mL
50 mM	0.0456 mL	0.228 mL	0.456 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ochi Y, et al. Effects of ONO-5334, a novel orally-active inhibitor of cathepsin K, on bone metabolism. Bone. 2011 Dec;49(6):1351-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481