

MK-0674

## Chemical Properties

CAS No. : 887781-62-6

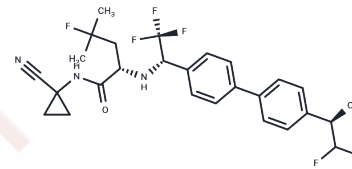
Formula: C<sub>26</sub>H<sub>27</sub>F<sub>6</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 527.5

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	MK-0674 is an orally available, selective and potent cathepsin K inhibitor (IC <sub>50</sub> : 0.4 nM) that inhibits Cat B, Cat F, Cat L, and Cat S. It can be used in metabolism-related diseases.
Targets(IC <sub>50</sub> )	Cysteine Protease
In vitro	MK-0674, as an orally bioavailable tissue protease K inhibitor, is capable of acting on rabbit osteoclasts with an IC <sub>50</sub> of 10 nM[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8957 mL	9.4787 mL	18.9573 mL
5 mM	0.3791 mL	1.8957 mL	3.7915 mL
10 mM	0.1896 mL	0.9479 mL	1.8957 mL
50 mM	0.0379 mL	0.1896 mL	0.3791 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

Isabel E, et al. The discovery of MK-0674, an orally bioavailable cathepsin K inhibitor. *Bioorg Med Chem Lett.* 2010 Feb 1;20(3):887-92.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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