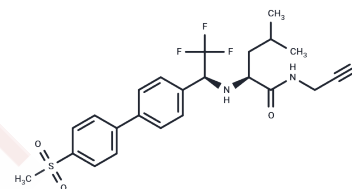


L-873724

## Chemical Properties

CAS No. : 603139-12-4  
 Formula: C<sub>23</sub>H<sub>26</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>S  
 Molecular Weight: 481.53  
 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	L-873724 inhibits bone resorption. L-873724 is an effective, selective, and reversible non-basic cathepsin K inhibitor (IC <sub>50</sub> s: 0.2, 178, 264, and 5239 nM for cathepsin K, cathepsin S, cathepsin L, cathepsin B, respectively). L-873724 also shows an IC <sub>50</sub> of 0.5 nM for rabbit cathepsin K.
Targets(IC <sub>50</sub> )	Others,Cysteine Protease
In vitro	L-873724 also displays IC <sub>50</sub> s of 95, 1221, and 4807 nM for Ramos cathepsin S, Hep G2 cathepsin L, Hep G2 cathepsin B[1].
In vivo	In the rhesus monkey bone resorption model, L-873724 is orally bioavailable, non-lysosomotropic, and efficacious[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0767 mL	10.3836 mL	20.7671 mL
5 mM	0.4153 mL	2.0767 mL	4.1534 mL
10 mM	0.2077 mL	1.0384 mL	2.0767 mL
50 mM	0.0415 mL	0.2077 mL	0.4153 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

Li CS, et al. Identification of a potent and selective non-basic cathepsin K inhibitor. *Bioorg Med Chem Lett*. 2006 Apr 1;16(7):1985-9.

Zhuo Y, et al. Inhibition of bone resorption by the cathepsin K inhibitor odanacatib is fully reversible. *Bone*. 2014 Oct;67:269-80.

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