

CXM102

## Chemical Properties

CAS No. :

Formula: C<sub>28</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 425.52

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	CXM102 is an activator of autophagy. This compound induces autophagy in aged BMSCs, rejuvenating them and promoting their preferential differentiation into osteoblasts. CXM102 enhances the nuclear translocation of transcription factor EB (TFEB) and the formation of osteoblasts. In middle-aged male mice, it stimulates bone anabolic metabolism, reduces marrow adipocytes, delays bone loss, lowers serum inflammation levels, reduces organ fibrosis, and extends lifespan.
Targets(IC50)	Autophagy

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3501 mL	11.7503 mL	23.5007 mL
5 mM	0.470 mL	2.3501 mL	4.7001 mL
10 mM	0.235 mL	1.175 mL	2.3501 mL
50 mM	0.047 mL	0.235 mL	0.470 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.

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