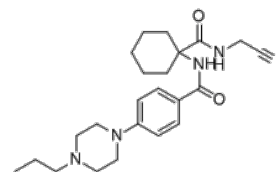


**Product Name** : Balicatib  
**Cat. No.** : PC-21937  
**CAS No.** : 354813-19-7  
**Molecular Formula** : C<sub>23</sub>H<sub>33</sub>N<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 411.55  
**Target** : Cathepsin  
**Solubility** : 10 mM in DMSO



## Biological Activity

Balicatib (AAE581) is a potent, selective and orally active and selective cathepsin K inhibitor with IC<sub>50</sub> of 22 nM. Balicatib (AAE581) displays 10-100-fold more potent in cell-based enzyme occupancy assays than cathepsin B, L, and S. Balicatib (AAE581) stimulates periosteal bone formation in monkeys.

## References

Falgueyret JP, et al. *J Med Chem.* 2005 Dec 1;48(24):7535-43.  
Jerome C, et al. *Osteoporos Int.* 2011 Dec;22(12):3001-11.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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