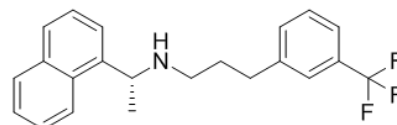


**Product Name** : Cinacalcet  
**Cat. No.** : PC-45941  
**CAS No.** : 226256-56-0  
**Molecular Formula** : C<sub>22</sub>H<sub>22</sub>F<sub>3</sub>N  
**Molecular Weight** : 357.412  
**Target** : Calcium-sensing Receptor (CaSR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Cinacalcet (AMG073) is a calcimimetic agent that acts as an allosteric activator of **CaSR** with EC<sub>50</sub> of 51 nM. Cinacalcet (AMG073) increases the concentration of cytoplasmic Ca<sup>2+</sup> in human embryonic kidney 293 cells expressing the human parathyroid CaR with EC<sub>50</sub> of 51 nM. Cinacalcet (AMG073) decreases PTH secretion from cultured bovine parathyroid cells with IC<sub>50</sub> of 28 nM. Cinacalcet (AMG073) is used for the treatment of tertiary hyperparathyroidism.

## References

- Nemeth EF, et al. *J Pharmacol Exp Ther.* 2004 Feb;308(2):627-35.  
Lindberg JS, et al. *Kidney Int.* 2003 Jan;63(1):248-54.  
Quarles LD, et al. *J Am Soc Nephrol.* 2003 Mar;14(3):575-83.

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

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