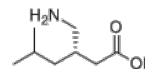


**Product Name** : Pregabalin  
**Cat. No.** : PC-61847  
**CAS No.** : 148553-50-8  
**Molecular Formula** : C<sub>8</sub>H<sub>17</sub>NO<sub>2</sub>  
**Molecular Weight** : 159.23  
**Target** : Calcium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

Pregabalin (CI-1008) is a 3-isobutyl derivative of GABA that selectively binds to alpha2delta (A2D) subunit voltage-dependent calcium channels (**VDCCs**).

Pregabalin (CI-1008) prevents calcium influx and the subsequent calcium-dependent release of various neurotransmitters, including glutamate, norepinephrine, serotonin, dopamine, and substance P, from the presynaptic nerve terminals of hyperexcited neurons.

Pregabalin (CI-1008) does not bind directly to GABA-A or GABA-B receptors and does not alter GABA uptake or degradation.

## References

Field MJ, et al. Br J Pharmacol. 1997 Aug;121(8):1513-22.

Field MJ, et al. J Pharmacol Exp Ther. 1997 Sep;282(3):1242-6.

Eutamene H, et al. J Pharmacol Exp Ther. 2000 Oct;295(1):162-7.

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

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