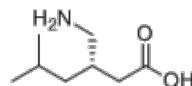


Product Name : Pregabalin
Synonyms : CI-1008; S-(+)-3-isobutylgaba
Cat No. : M12048
CAS Number : 148553-50-8
Molecular Formula : C₈H₁₇NO₂
Formula Weight : 159.23
Chemical Name : (S)-3-(Aminomethyl)-5-methylhexanoic acid



Description : Pregabalin (CI-1008) is a 3-isobutyl derivative of GABA that selectively binds to alpha2delta (A2D) subunit voltage-dependent calcium channels (VDCCs); 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; does not bind directly to GABA-A or GABA-B receptors and does not alter GABA uptake or degradation. Epilepsy Approved

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : Calcium Channel

Solubility : —

SMILES : CC(C)C[C@H](CN)CC(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Field MJ, et al. Br J Pharmacol. 1997 Aug;121(8):1513-22. | 2. Field MJ, et al. J Pharmacol Exp Ther. 1997 Sep;282(3):1242-6. | 3. Eutamene H, et al. J Pharmacol Exp Ther. 2000 Oct;295(1):162-7.