



Product Information

Product ID V0369

CAS No. 375815-87-5

Chemical Name 6,7,8,9-tetrahydro-6,10-methano-6H-pyrazino(2,3-h) benzazepine

Synonym Varenicline(Tartrate); Champix; CP 526555-18; Varenicline TaTRate

Formula $C_{13}H_{13}N_3 C_4H_6O_6$

Formula Wt. 361.35

Melting Point

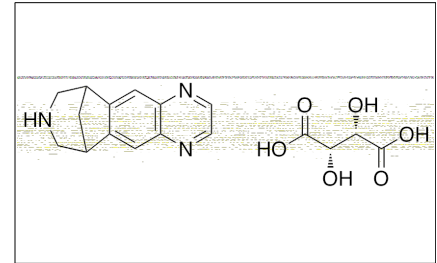
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Varenicline (VCL) is a modulator of nicotinic acetylcholine receptors (nAChRs) that acts as a partial agonist at $\alpha 6B2$ and $\alpha 6B2$ nAChRs and a full agonist at homomeric $\alpha 7$ nAChRs; VCL may also display agonist activity at $B4$ nAChR subunits. This compound displays neuromodulatory, cognition enhancing, analgesic, and reward and reinforcement modulating activities. VCL is clinically used as a smoking cessation therapy and is currently under examination as a treatment to decrease alcohol consumption as well. Like other nicotinic agonists, VCL exhibits some cognitive benefit, enhancing working memory in primate models. This compound also induces an analgesic effect in animal models of chronic pain undergoing the formalin test.



Bulk quantities available upon request

Product ID	Size
V0369	10 mg
V0369	25 mg
V0369	100 mg

References Hendrickson LM, Guildford MJ, Tapper AR. Neuronal nicotinic acetylcholine receptors: common molecular substrates of nicotine and alcohol dependence. *Front Psychiatry*. 2013 Apr 30;4:29. PMID: 23641218.

Sotomayor-Zárate R, Gysling K, Busto UE, et al. Varenicline and cytosine: two nicotinic acetylcholine receptor ligands reduce ethanol intake in University of Chile bibulous rats. *Psychopharmacology (Berl)*. 2013 May;227(2):287-98. PMID: 23344555.

Gould RW, Garg PK, Garg S, et al. Effects of nicotinic acetylcholine receptor agonists on cognition in rhesus monkeys with a chronic cocaine self-administration history. *Neuropharmacology*. 2013 Jan;64:479-88. PMID: 22921923.

AlSharari SD, Carroll FI, McIntosh JM, et al. The antinociceptive effects of nicotinic partial agonists varenicline and sazetidine-A in murine acute and tonic pain models. *J Pharmacol Exp Ther*. 2012 Sep;342(3):742-9. PMID: 22678099.

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Ortiz NC, O'Neill HC, Marks MJ, et al. Varenicline blocks $B2^*$ -nAChR-mediated response and activates $B4^*$ -nAChR-mediated responses in mice in vivo. *Nicotine Tob Res*. 2012 Jun;14(6):711-9. PMID: 22241831.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.