

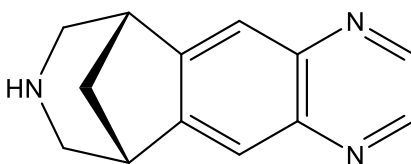
**Catalog # 10-2362**

**Varenicline tartrate**

CAS# 375815-87-5

7,8,9,10-Tetrahydro-6H-6,10-methanoazepino[4,5-g]quinoxaline tartrate; 7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino(2,3-h)(3)benzazepine tartrate; Chantix; CP-526,555-18

Lot # FBS



·C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>

Varenicline is a partial agonist of the  $\alpha 4\beta 2$  neuronal nicotinic acetylcholine receptor ( $EC_{50} = 2.3 \mu M$ ) and a full agonist at  $\alpha 7$  neuronal nicotinic receptors.<sup>1</sup> Clinically useful smoking cessation agent.<sup>2,3</sup>

- 1) Mihalak *et al.* (2006), *Varenicline is a partial agonist at alpha4beta2 and a full agonist at alpha7 neuronal nicotinic receptors*; Mol. Pharmacol. **70** 801
- 2) Rollema *et al.* (2007), *Pharmacological profile of the alpha4beta2 nicotinic acetylcholine receptor partial agonist varenicline, an effective smoking cessation aid*; Neuropharmacology **52** 985
- 3) Mills *et al.* (2012), *Comparisons of high-dose and combination nicotine replacement therapy, varenicline, and bupropion for smoking cessation: a systemic review and multiple treatment meta-analysis*; Ann. Med. **44** 588

**PHYSICAL DATA**

Molecular Weight:	361.35
Molecular Formula:	C <sub>13</sub> H <sub>13</sub> N <sub>3</sub> ·C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (18 mg/ml); Water (35 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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