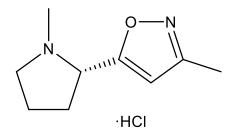


## Catalog # 10-1470 ABT-418 HCI

CAS# 147388-83-8 3-Methyl-5-[(2S)-1-methyl-2-pyrrolidinyl]isoxazole hydrochloride Lot # X105827



ABT-418 is an agonist at neuronal nicotinic acetylcholine receptors displaying the highest potency at a4b2 and a2b2 subtypes ( $EC_{50}$ = approximately 6 and 11 mM, respectively).<sup>1</sup> Displays anxiolytic activity in a rat model and was 6-fold more potent than diazepam.<sup>2</sup> Reduces distractibility in a primate model<sup>3</sup> and may have relevance in attention deficit hyperactivity disorder<sup>4</sup>. Improves cognition in Alzheimer's disease patients.<sup>5</sup>

- 1) Papke et al. (1997), Activation and inhibition of rat neuronal nicotinic receptors by ABT-418; Br. J. Pharmacol., **120** 429
- 2) Brioni *et al.* (1994), *Anxiolytic-like effects of the novel cholinergic channel activator ABT-418*; J. Pharmacol. Exp. Therap., **271** 353
- 3) Prendergast et al. (1998), Central nicotinic receptor agonists ABT-418, ABT089, and (-)-nicotine reduce distractibility in adult monkey; Psychopharmacology (Berl), **136** 50
- 4) Beiderman and Spencer (2000), Non-stimulant treatments for ADHD; Eur. Child Adolesc. Psychiatry, 9 Suppl1 151
- 5) Potter *et al.* (1999), *Acute effects of the selective cholinergic channel activator (nicotinic agonist) ABT-418 in Alzheimer's disease*; Psychopharmacology (Berl), **142** 334

## PHYSICAL DATA

Molecular Weight:	202.68
Molecular Formula:	C <sub>9</sub> H <sub>14</sub> N <sub>2</sub> O .HCl
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Water (15 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in
	water 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.

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