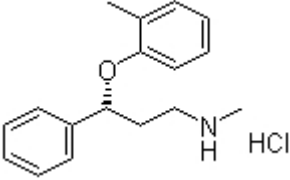


Product Introduction

Atomoxetine HCl

Atomoxetine is a selective **norepinephrine (NE) transporter** inhibitor with K_i of 5 nM, with 15- and 290-fold lower affinity for human 5-HT and DA transporters. Phase 4.

Technical Data:

Molecular Weight (MW):	291.82	
Formula:	C ₁₇ H ₂₁ NO.HCl	
Solubility (25°C)	DMSO 58 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water 2 mg/mL	
	Ethanol 37 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder	
	6 months -80°C in DMSO	
CAS No.:	82248-59-7	

Biological Activity

Atomoxetine is a selective norepinephrine reuptake inhibitor with K_i of 5 nM, compared with 77 and 1451 nM for binding to serotonin and dopamine transporters. ^[1]

In microdialysis studies, atomoxetine increases extracellular (EX) levels of NE in prefrontal cortex (PFC) 3-fold, but does not alter 5-HT_{EX} levels. Atomoxetine also increases DA_{EX} concentrations in PFC 3-fold, but does not alter DA_{EX} in striatum or nucleus accumbens. Atomoxetine increases Fos by 3.7-fold in PFC, but not in the striatum or nucleus accumbens. ^[1] Atomoxetine selectively inhibits the presynaptic uptake of

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norepinephrine in adrenergic neurons in animals, and has activity in animal models of depression. ^{[2][3]}

References

- [1] Bymaster FP, et al. Neuropsychopharmacology, 2002, 27(5), 699-711.
- [2] Zerbe RL, et al. J Pharmacol Exp Ther, 1985, 232(1), 139-143.
- [3] Wong DT, et al. J Pharmacol Exp Ther, 1982, 222(1), 61-65.



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