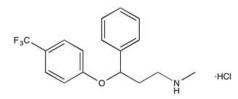


Catalog # 10-2728 Fluoxetine HCI

CAS# 56296-78-7

LY-110,140 (±)-N-Methyl-γ-[4-(trifluoromethyl)phenoxy]benzenepropanamine hydrochloride Lot # X101492



A selective serotonin reuptake inhibitor (SSRI) with high selectivity for the serotonin transporter (K_d =0.81 nM) over the norepinephrine (K_d =240 nM) and dopamine (K_d =3.6 μ M) transporters.¹ A clinically useful antidepressive agent.² Has shown some potential in autism spectrum disorders.³ Attenuates neuroinflammation in early brain injury after subarachnoid hemorrhage.⁴ Orally active and active *in vivo*. Increases proliferation of neuronal precursors derived from human embryonic stem cells, inducing differentiation and strongly enhancing neuronal characteristics.⁵

- 1) Tatsumi et al. (1997), Pharmacological profile of antidepressants and related compounds at human monoamine transporters; Eur. J. Pharmacol., **340** 249
- 2) Benfield et al. (1986), Fluoxetine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in depressive illness; Drugs, **32** 481
- 3) Benvenuto et al. (2013), Pharmacotherapy of autism spectrum disorders; Brain Dev., 35 119
- 4) Liu et al. (2018), Fluoxetine attenuates neuroinflammation in early brain injury after subarachnoid hemorrhage: a possible role for the regulation of TLR4/MyD88/NFkB signaling pathway; J. Neuroinflammation, **15** 347
- 5) Chang et al. (2010), Increased cellular turnover in response to fluoxetine in neurona precursors derived from human embryonic stem cells; Prog. Int. J. Dev. Biol., **54** 707

PHYSICAL DATA

Molecular Weight:	345.79
Molecular Formula:	C ₁₇ H ₁₈ F ₃ NO · HCI
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml) or Water (up to 4 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase.
	Solutions in DMSO or distilled 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.