

Fluoxetine hydrochloride [59333-67-4]

#Cat: NB-48-0410 Size: 1G

#Cat: NB-48-0410 Size: 2G

#Cat: NB-48-0410 Size: 5G

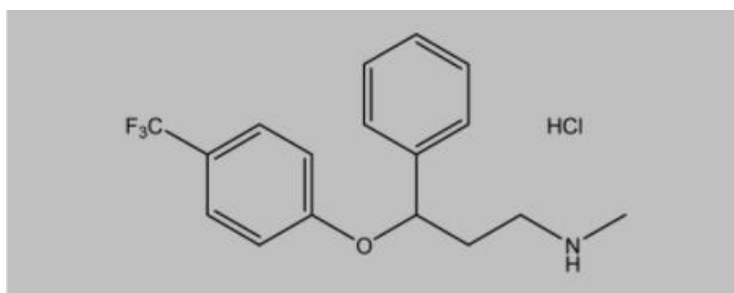
#Cat: NB-48-0410 Size: 10G

#Cat: NB-48-0410 Size: 50MG

#Cat: NB-48-0410 Size: 100G

#Cat: NB-48-0410 Size: 200MG

#Cat: NB-48-0410 Size: 300G



PHYSICAL AND CHEMICAL PROPERTIES

Batch No.:	0197BG/04
Batch Molecular Formula:	C ₁₇ H ₁₈ F ₃ NO .HCl
Batch Molecular Weight:	345.79
CAS No.:	[59333-67-4]
Physical Appearance:	White solid
Melting Point:	156 - 158° C
Solubility:	Soluble to 10 mM in water or to 100 mM in DMSO
Storage:	RT

Product Description: Selective Serotonin Reuptake Inhibitor (SSRI) and antidepressant. Binds to the human Serotonin Transporter (SERT) with a K_i of 0.9 nM. Displays 150- and 900-fold selectivity over 5-HT_{1A}, 5-HT_{2A}, Histamine H₁, α_1 -, α_2 -adrenergic and muscarinic receptors. Inhibits Cytochrome P450 CYP2C19, 2D6, 3A4, 3A5 and 3A7. Also exhibits potent anti-inflammatory activity in human and murine models of Rheumatoid Arthritis and inhibits Toll-Like Receptors. Recently, it was shown that Fluoxetine treatment acts directly on raphe neurons to antagonize canonical Wnt signalling and enhance miR-16 maturation, thus inducing a downregulation of SERT and prolonging serotonergic signalling

- References:**
1. Benfield et al. (1986) *Drugs* 32:481
 2. Owens et al. (1997) *J Pharmacol Exp Ther* 283:1305
 3. Sacre et al. (2010) *Arthritis Rheum* 62:683
 4. Baudry et al. (2010) *Science* 329:1537
 5. Sandoz et al. (2011) *Proc Natl Acad Sci USA* 108:2605

ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Heavy Metals: < 20 ppm (complies); Optical rotation: +0.0° (complies); HPLC Assay: > 99% (complies).

- CAUTION - Not fully tested. For Research use only. Not for human use. –