



## Escitalopram

<b>Cat. No.:</b>	OB0225LY-0123
<b>Appearance:</b>	Oil
<b>Purity:</b>	≥99%
<b>Identity:</b>	Confirmed by NMR, HPLC, and LC-MS.
<b>Size:</b>	5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg

This product is for research use only and is not intended for diagnostic use.

### Product Overview

<b>Description</b>	Escitalopram is a selective serotonin reuptake inhibitor (SSRI) that works by increasing serotonin levels in the brain.
<b>Synonym</b>	Seroplex; S-(+)-Citalopram; (S)-Citalopram; 128196-01-0; (1S)-1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-2-benzofuran-5-carbonitrile; (+)-(S)-1-(3-(Dimethylamino)propyl)-1-(p-fluorophenyl)-5-phthalan carbonitrile; (1S)-1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-3H-2-benzofuran-5-carbonitrile; 5-Isobenzofurancarbonitrile, 1-(3-(dimethylamino)propyl)-1-(4-fluorophenyl)-1,3-dihydro-, (1S)-
<b>CAS No.</b>	128196-01-0
<b>Compound CID</b>	146570
<b>Formula</b>	C <sub>20</sub> H <sub>21</sub> FN <sub>2</sub> O
<b>Formula Weight</b>	324.39

### Specification

<b>Relative Density</b>	1.18 g/cm <sup>3</sup>
<b>IUPAC Name</b>	(1S)-1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-3H-2-benzofuran-5-carbonitrile
<b>InChI</b>	InChI=1S/C20H21FN2O/c1-23(2)11-3-10-20(17-5-7-18(21)8-6-17)19-9-4-15(13-22)12-16(19)14-24-20/h4-9,12H,3,10-11,14H2,1-2H3/t20-/m0/s1
<b>InChI Key</b>	WSEQXVZVJXJVP-FQEVSTJZSA-N



<b>SMILES string</b>	<chem>CN(C)CCC[C@@]1(C2=C(CO1)C=C(C=C2)C#N)C3=CC=C(C=C3)F</chem>
<b>Stability</b>	3 years in powder form.
<b>Storage</b>	Storage at -20°C.
<b>Applications</b>	Escitalopram plays a role in research on major depressive disorder, generalized anxiety disorder, and other anxiety-related disorders.

## Library Information

<b>Targets</b>	Monoamine transporters; G protein-coupled receptors (GPCRs); Neurotrophin receptors; Ion channels
<b>Receptors</b>	DA transporter; H1 receptor; mAChR; $\alpha$ -Adrenergic receptor; 5-HT receptor; Histamine receptor; Dopamine receptor; Noradrenaline transporter (Sodium-dependent); Serotonin transporter; Sert (Sodium-dependent)
<b>Pathways</b>	Neuronal signaling; Immunology/Inflammation; GPCR/G protein
<b>Plate Number</b>	AOCL-2
<b>Plate Location</b>	e6
<b>Empty Location</b>	a1-h1; a12-h12
<b>Container</b>	96-well plate
<b>Formulation</b>	10 mM DMSO
<b>DMSO Max Solubility</b>	45 mg/mL; 138.72 mM