Phone: 888-558-5227 651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID P0297

CAS No. 110429-35-1

Chemical Name (3S-trans)-3-[(1,3-Benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl)

piperidine hydrochloride hemihydrate

Synonym Paroxetine hydrochloride hemihydrate, Paxil: Aropax,

Deroxat, Seroxat

Formula C₁₉H₂₀FNO₃ HCl 1/2H₂O

Formula Wt. 374.84 Melting Point 129-131°C

Purity ≥98%

Solubility Soluble in water (5.4

mg/mL), DMSO(73 mg/mL), and ethanol (35mg/mL)

Store Temp Ambient Ship Temp Ambient

Description Paroxetine is a SSRI that primarily inhibits activity of the 5-HT transporter (SERT) but also displays some affinity for the norepinephrine transporter (NET) and for muscarinic acetylcholine receptors (mAChRs). Paroxetine exhibits antidepressant, antibiotic, anti-inflammatory, and neuroprotective activities. This compound displays antibacterial efficacy against gram

> of iNOS, TNF- α , and IL-1B and suppresses activation of JNK1/2 and microglia. Additionally, paroxetine decreases amyloid-B (AB) oligomer levels when administered clinically to subjects with Alzheimer's disease. This compound also acts as a functional inhibitor of acid sphingomyelinase (FIASMA).

positive bacteria and antifungal efficacy against Aspergillus and Candida. In vitro, paroxetine inhibits LPS-induced production

HCI 1/2 H₂O

Bulk quanitites available upon request

Product ID	Size
P0297	25 mg
P0297	100 mg
P0297	500 mg
P0297	1 g

References Liu RP, Zou M, Wang JY, et al. Paroxetine ameliorates lipopolysaccharide-induced microglia activation via differential regulation of MAPK signaling. J Neuroinflammation. 2014 Mar 12;11:47. PMID: 24618100.

> Aboukhatwa M, Luo Y. Antidepressants modulate intracellular amyloid peptide species in N2a neuroblastoma cells. J Alzheimers Dis. 2011;24(2):221-34. PMID: 21263193.

Young TJ, Oliver GP, Pryde D, et al. Antifungal activity of selective serotonin reuptake inhibitors attributed to non-specific cytotoxicity. J Antimicrob Chemother. 2003 Apr;51(4):1045-7. PMID: 12654745.

Munoz-Bellido JL. Munoz-Criado S. García-Rodríguez JA. Antimicrobial activity of psychotropic drugs; selective serotonin reuptake inhibitors. Int J Antimicrob Agents. 2000 Apr;14(3):177-80. PMID: 10773485.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.