



LKT Laboratories, Inc.

Sertraline Hydrochloride

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Product Information

Product ID S1971

CAS No. 79559-97-0

Chemical Name (1S-cis)-4-(3,4-dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl-1-naphthalenamine hydrochloride

Synonym Lustral, Zoloft

Formula $C_{17}H_{17}Cl_2N \cdot HCl$

Formula Wt. 342.70

Melting Point 243-245°C

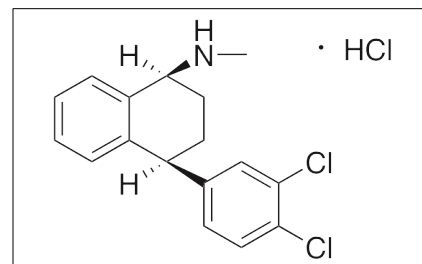
Purity ≥98%

Solubility Slightly soluble in water and isopropyl alcohol. Sparingly soluble in ethanol.

Store Temp Ambient

Ship Temp Ambient

Description Sertraline exhibits antidepressant and anxiolytic activities; it is a typical selective serotonin reuptake inhibitor (SSRI). Sertraline primarily inhibits the 5-HT transporter (SERT), but also inhibits the dopamine transporter (DAT), α 1-adrenergic receptors, and potentially σ 1 receptors. Additionally, sertraline inhibits osteoclast formation and resorption and induces apoptosis in both osteoclasts and osteoblasts. This compound also acts as a functional inhibitor of acid sphingomyelinase (FIASMA).



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S1971	500 mg	\$98.60
S1971	1 g	\$141.00
S1971	5 g	\$521.00

References Santos-Cruz L, Campos-Aguilar M, Castaneda-Partida L, et al. Impact of larval sertraline exposure on alternative splicing in neural tissue of adult *Drosophila melanogaster*. *Int J Mol Sci*. 2025 Jan 10;26(2):563. PMID: 39859278.

Guaiana G, Gupta S, Chiodo D, et al. Agomelatine versus other antidepressive agents for major depression. *Cochrane Database Syst Rev*. 2013 Dec 17;12:CD008851. PMID: 24343836.

Zhu H, Bogdanov MB, Boyle SH, et al. Pharmacometabolomics of response to sertraline and to placebo in major depressive disorder - possible role for methoxyindole pathway. *PLoS One*. 2013 Jul 17;8(7):e68283. PMID: 23874572.

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Meyer JH, Wilson AA, Segrati S, et al. Serotonin transporter occupancy of five selective serotonin reuptake inhibitors at different doses: an [^{11}C]DASB positron emission tomography study. *Am J Psychiatry*. 2004 May;161(5):826-35. PMID: 15121647.

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