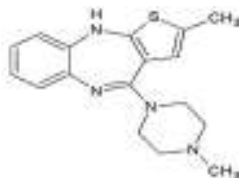


# Olanzapine

**ALTERNATE NAME:** LY170053  
2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine

**CATALOG #:** B2677-100 100 mg  
B2677-500 500 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>S

**MOLECULAR WEIGHT:** 312.43

**CAS NUMBER:** 132539-06-1

**APPEARANCE:** Yellow solid

**PURITY:** ≥98%

**SOLUBILITY:** ~15 mg/ml DMSO

**DESCRIPTION:** Olanzapine is an antipsychotic agent with anticholinergic properties. It binds to dopamine D1, D2, and D4 receptors (K<sub>i</sub>s = 31, 11, and 27 nM, respectively) as well as the serotonin (5-HT) receptor subtypes 5-HT<sub>2A</sub>, 5-HT<sub>2C</sub>, and 5-HT<sub>3</sub> (K<sub>i</sub>s = 4, 11, and 57 nM, respectively). It also binds to M1 muscarinic acetylcholine, α1-adrenergic, and histamine H1 receptors (K<sub>i</sub>s = 2, 19, and 7 nM, respectively). Olanzapine induces autophagy, mitochondrial damage and mitophagy in human SH-SY5Y neuronal cell line.

**STORAGE TEMPERATURE:** -20°C. Protect from light

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Valbenazine (B2954)  
Aripiprazole (B1186)  
Thioridazine Hydrochloride (B1581)  
Chlorpromazine Hydrochloride (B1992)  
Bromocriptine (mesylate) (2916)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*