Product Data Sheet

**Product Name:** Olanzapine
**CAS No.:** 132539-06-1
**Cat. No.:** HY-14541
**MWt:** 312.43
**Formula:** C17H20N4S
**Purity :** >98%

**Solubility:**
- DMSO: 63 mg/mL
- H2O: <1 mg/mL

**Mechanisms:**
- Pathways: GPCR/G protein; Target: 5-HT Receptor
- Pathways: Neuronal Signaling; Target: 5-HT Receptor

**Biological Activity:**
Olanzapine (LY170053) is a high affinity for 5-HT2 serotonin and D2 dopamine receptor antagonist.

**IC50 Value:**
Target: 5-HT Receptor

Olanzapine is a thienobenzodiazepine that blocks especially the serotonin (5-hydroxytryptamine [5-HT]) 5-HT2A and the dopamine D2 receptors (Ki values are 4 and 11 nM respectively) as well as muscarinic (M1), histamine (H1), 5-HT2C, 5-HT3 to 5-HT6, adrenergic (α(l)), and D4 receptors.

Atypical antipsychotic for the treatment of schizophrenia. Olanzapine displays anticholinergic properties.

**References:**

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