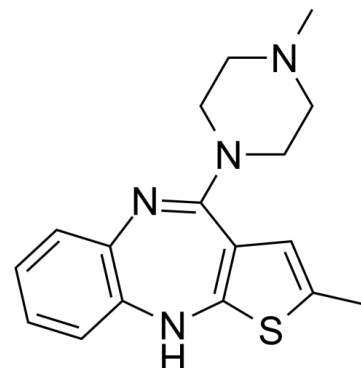


Data Sheet

Product Name:	Olanzapine
Cat. No.:	CS-1114
CAS No.:	132539-06-1
Molecular Formula:	C ₁₇ H ₂₀ N ₄ S
Molecular Weight:	312.43
Target:	5-HT Receptor; Autophagy; Dopamine Receptor; Mitophagy
Pathway:	Autophagy; GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 20 mg/mL (64.01 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Olanzapine (LY170053) is **5-HT₂** and **D₁/D₂** antagonist. Olanzapine is an antipsychotic agent with anticholinergic properties^[1]. Olanzapine induces **autophagy**, mitochondrial damage and **mitophagy** in human SH-SY5Y neuronal cell line^[2].

References:

- [1]. Moore NA, et al. The behavioral pharmacology of olanzapine, a novel "atypical" antipsychotic agent. J Pharmacol Exp Ther. 1992 Aug;262(2):545-51.
- [2]. Vucicevic L, et al. Autophagy inhibition uncovers the neurotoxic action of the antipsychotic drug olanzapine. Autophagy. 2014;10(12):2362-78.

CAIndexNames:

10H-Thieno[2,3-b][1,5]benzodiazepine, 2-methyl-4-(4-methyl-1-piperazinyl)-

SMILES:

CC1=CC(C(N2CCN(C)CC2)=N3)=C(S1)NC4=C3C=CC=C4

Caution: Product has not been fully validated for medical applications. For research use only.

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