

# Antipsychotics and Antidepressants

LKT Laboratories offers a variety of bioactive antipsychotic and antidepressant compounds for use in research models. Many of these compounds alter dopamine signaling, inhibiting one of several dopamine receptor subtypes or dopamine transporters. LKT Laboratories carries typical first generation antipsychotics such as **Chlorpromazine Hydrochloride (C2947)** and **Haloperidol (H0142)** as well as atypical second generation antipsychotics **Clozapine (C4757)** and **Risperidone (R3475)**.

A second category of neuroactive compounds includes antidepressants, which typically act to prolong the activity of neurotransmitters in the brain. These compounds often act on serotonin receptors, dopamine receptors, ion channels, and neurotransmitter transporters. Selective serotonin reuptake inhibitors (SSRIs) inhibit presynaptic reuptake of serotonin from the synapse back into the neuron, increasing levels of

serotonin available to interact with serotonin receptors. **Fluoxetine Hydrochloride (F4780)** and **Paroxetine Hydrochloride Hemihydrate (P0297)** are SSRIs used in many research applications.

Monoamine oxidase inhibitors (MAOIs) are another category of antidepressants that inhibit monoamine oxidase, an enzyme responsible for degradation of serotonin and dopamine. Inhibition of this enzyme increases levels of these neurotransmitters, allowing them to bind receptors and transmit signals involved in reward, reinforcement, learning, and memory. **Tranylcypromine Hydrochloride (T6903)** and **Moclobemide (M5610)** are two of several MAOIs carried by LKT Laboratories.

Additional representative antipsychotics and antidepressants from our product library can be found in the listing below.

A5234 Amisulpride  
A5235 Amitriptyline Hydrochloride  
A5059 Amoxapine  
A7034 Aripiprazole  
A9801 Azaperone  
B9363 Bupropion Hydrochloride  
B8274 Buspirone Hydrochloride  
C3477 Citalopram Hydrobromide  
C4457 Clomipramine Hydrochloride  
D1874 Desvenlafaxine Succinate  
D5994 Doxepin Hydrochloride  
D8145 Duloxetine Hydrochloride  
E7209 Escitalopram Oxalate  
F4584 Fluphenazine  
F4783 Fluvoxamine Maleate  
I4659 Iloperidone

K1678 Ketanserin  
M0262 Maprotiline Hydrochloride  
M1845 Melitracen Hydrochloride  
M3368 Mirtazapine  
N1822 Nefazodone Hydrochloride  
O4400 Olanzapine  
P0144 Paliperidone  
Q8019 Quetiapine Fumarate  
S1971 Sertraline Hydrochloride  
T2936 Thioridazine Hydrochloride  
T7003 Trazodone Hydrochloride  
T7033 Trifluoperazine Hydrochloride  
V1854 Venlafaxine Hydrochloride  
V3444 Vilazodone  
V5870 Vortioxetine  
Z3463 Ziprasidone

