

Antipsychotics

Antipsychotic medications (neuroleptics) are used for the treatment of psychosis, mainly schizophrenia and manic depression (bipolar disorder). They reduce symptoms such as hallucinations, delusions, and paranoia, and can also be used to help severe anxiety or depression. Antipsychotic medications have been available for the treatment of psychosis for over half a century. The first being chlorpromazine (Thorazine), introduced in the early 1950's. The list now extends to over 20 different compounds.



Antipsychotics act by blocking dopamine receptors in the brain and interfering with dopaminergic transmission. Side effects include movement disorders similar to Parkinson's disease, such as shaking/tremor, involuntary body movements and inner restlessness. These are referred to as extrapyramidal symptoms, and can be controlled with anticholinergic drugs such as orphenadrine and procyclidine. Other side effects include lethargy, weight gain and sexual dysfunction. Longer term there is increased risk of developing type 2 diabetes, high blood pressure, heart problems and osteoporosis.

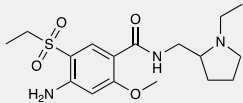
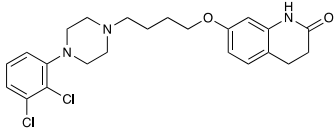
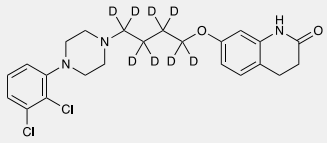
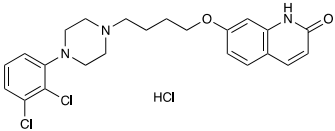
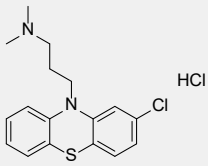
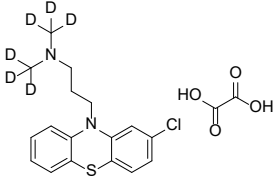
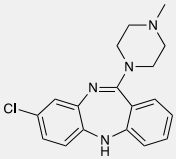
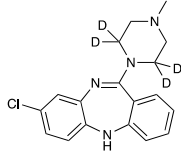
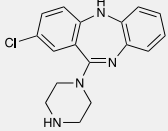
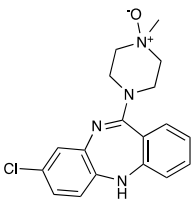
Antipsychotics are may be classified as typical or atypical, or first and second generation respectively. Typical antipsychotics include; Chlorpromazine, Haloperidol,

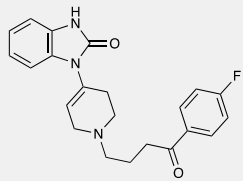
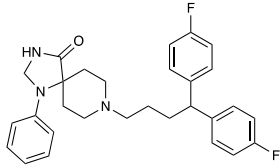
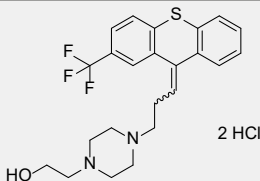
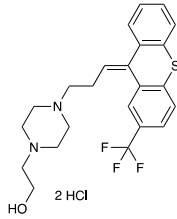
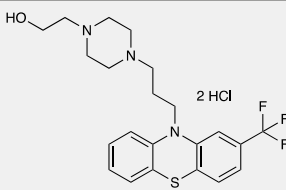
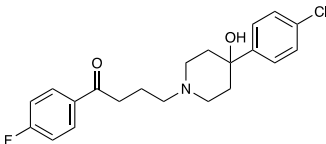
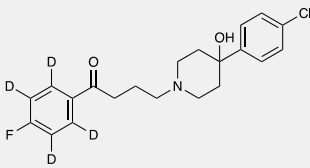
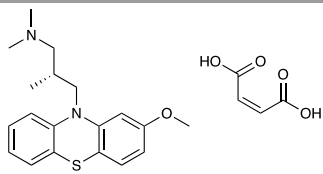
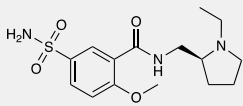
Pimozide, Trifluoperazine, and Sulpiride. Atypical include; Amisulpride, Aripiprazole, Clozapine, Olanzapine, Quetiapine and Risperidone. Atypical antipsychotics, are useful in patients that do not respond to treatment with typical antipsychotics. They cause less extrapyramidal side effects and have a greater efficacy to treat negative symptoms. Atypical antipsychotics also block dopamine, but to a lesser degree than the older drugs. They also work on serotonin.

Some antipsychotics are available in depot form, i.e. Haloperidol decanoate, Flupenthixol decanoate, Fluphenazine decanoate, Pipothiazine palmitate and Zuclopenthixol decanoate. These are injected into muscle every 2 to 4 weeks and release slowly over time. This prevents patients forgetting to take their medication.

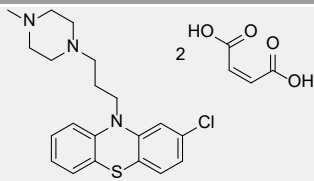
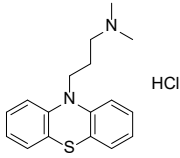
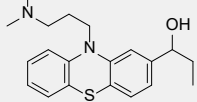
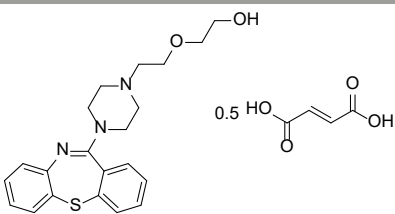
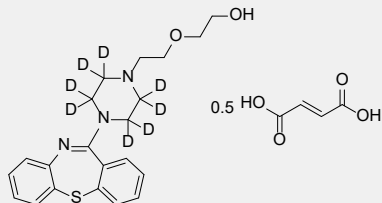
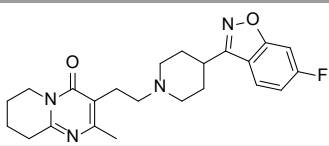
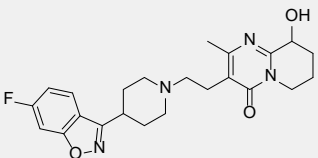
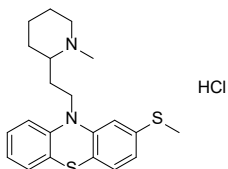
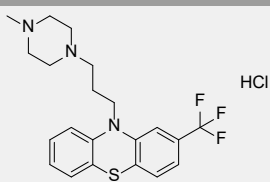
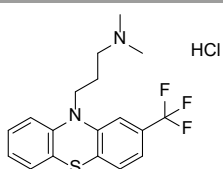


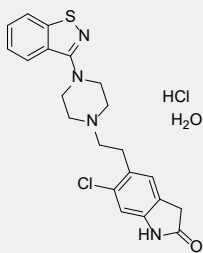
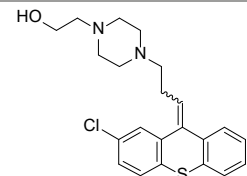
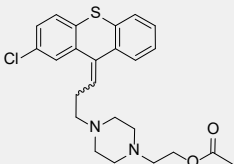
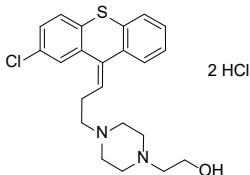
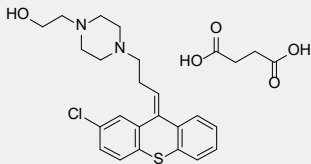
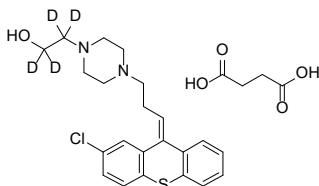
Antipsychotics product listing

Chiron No.	Structure	Name	CAS
Amisulpride			
10349.17		(±)-Amisulpride	71675-85-9
Aripiprazole			
2305.23		Aripiprazole	129722-12-9
9653.23		Aripiprazole-d8 (butyl-d8)	1089115-04-7
11004.23		Dehydroaripiprazole hydrochloride	1008531-60-9
Chlorpromazine			
10350.17		Chlorpromazine hydrochloride	69-09-0
10841.17		Chlorpromazine-d6 oxalate (N,N-dimethyl-d6)	1208197-23-9
Clozapine			
9275.18		Clozapine	5786-21-0
9406.18		Clozapine-d4 (4-methylpiperazinyl-2,2,6,6-d4)	204395-52-8
10807.17		Norclozapine (N-Desmethyl Clozapine)	6104-71-8
10808.18		Clozapine N-oxide (4-Oxido-piprazinyl)	34233-69-7

Chiron No.	Structure	Name	CAS
Droperidol			
11983.22		Droperidol	548-73-2
Fluspirilene			
9748.29		Fluspirilene	1841-19-6
Flupentixol			
10358.23		Flupentixol dihydrochloride (cis+trans)	2413-38-9
10712.23		cis-(Z)-Flupentixol dihydrochloride	51529-01-2
Fluphenazine			
11163.22		Fluphenazine dihydrochloride	146-56-5
Haloperidol			
10345.21		Haloperidol	52-86-8
10359.21		Haloperidol-d4 (4-chlorophenyl-d4)	1189986-59-1
Levomepromazine			
11807.23		Levomepromazine maleate	7104-38-3
Levosulpiride			
12740.15		Levosulpiride ((S)-(-)-Sulpiride)	23672-07-3

Chiron No.	Structure	Name	CAS
Olanzapine			
3761.17		Olanzapine	132539-06-1
9766.17		Olanzapine-d3 (4-methyl-d3)	786686-79-1
11913.16		N-Demethylolanzapine	161696-76-0
3924.23		Olanzapine 10-N-β-D-glucuronide	186792-80-3
Perphenazine			
9749.21		Perphenazine	58-39-9
9914.21		Perphenazine-d4 (phenothiazine-1,3,7,9-d4)	155593-75-2
Phenothiazine			
13859.12		Phenothiazine	92-84-2
Pimozide			
14255.28		Pimozide	2062-78-4
Pipamperone			
15312.21		Pipamperone	1893-33-0

Chiron No.	Structure	Name	CAS
Prochloroperazine			
10856.2		Prochloroperazine maleate	84-02-6
Promazine			
11164.17		Promazine hydrochloride	53-60-1
11989.2		2-(1-Hydroxypropyl)promazine	110080-35-8
Quetiapine			
10835.46		Quetiapine hemifumarate	111974-72-2
13187.46		Quetiapine-d8 hemifumarate	1435938-24-1
Risperidone			
10337.23		Risperidone	106266-06-2
10338.23		(9RS)-9-Hydroxyrisperidone (Paliperidone)	144598-75-4
Thioridazine			
11419.21		Thioridazine hydrochloride	130-61-0
Trifluoperazine			
11192.21		Trifluoperazine dihydrochloride	440-17-5
Triflupromazine			
11195.18		Triflupromazine hydrochloride	1098-60-8

Chiron No.	Structure	Name	CAS
Ziprasidone			
11901.21		Ziprasidone hydrochloride monohydrate	138982-67-9
Zuclopenthixol			
10284.22		Zuclopenthixol (cis+trans)	982-24-1
10285.24		Zuclopenthixol acetate (cis+trans)	85721-05-7
14033.22		cis-(Z)-Zuclopenthixol dihydrochloride	633-59-0
10713.26		cis-(Z)-Zuclopenthixol succinate	53772-83-1 (free base)
10383.22		cis-(Z)-Zuclopenthixol-d4 succinate	1246833-97-5

Antipsychotic mixes

Chiron No.	Name	CAS	Concentration
S-4965-100-ME			

Chiron No.	Name	CAS	Concentration
S-4983-ASS-ME Antipsychotic & Antidepressant Mix 2 : 6 components in 1 mL methanol			
11163.22	Fluphenazine dihydrochloride	146-56-5	10 µmol/L (4.38 µg/mL)
10712.23	cis-(Z)-Flupentixol dihydrochloride	51529-01-2	10 µmol/L (4.35 µg/mL)
9749.21	Perphenazine	58-39-9	10 µmol/L (4.04 µg/mL)
10284.22	Zuclopenthixol (cis+trans)	982-24-1	20 µmol/L (8.02 µg/mL)
9284.17	(+)-(1S,4S)-Sertraline hydrochloride	79559-97-0	100 µmol/L (30.62 µg/mL)
12000.16	rac-Norsertaline hydrochloride	91797-57-8	100 µmol/L (29.22 µg/mL) (as free base)
S-5204-25µM-ME Antipsychotic & Antidepressant Mix 3 : 8 components in 1 mL methanol			
10345.21	Haloperidol	52-86-8	25µM (as free base)
3761.17	Olanzapine	132539-06-1	
11913.16	N-Desmethylolanzapine	161696-76-0	
10337.23	Risperidone	106266-06-2	
10338.23	(9S)-9-Hydroxyrisperidone	144598-75-4	
9288.17	Mirtazapine	85650-52-8	
12043.16	Desmethyilmirtazapine dihydrochloride	61337-68-6 (freebase)	
11811.18	Vortioxetine hydrochloride	960203-28-5	

Accuracy controls



These accuracy controls were originally prepared as proficiency testing material for the GTFCh by ARVECON GmbH. Target values are batch specific and the consensus values obtained from the trial. No restrictions were placed on sample preparation and analytical methodology. Quantitative analyses were performed by the participants using HPLC and LC/MS/MS. The target values are released by the coordinator of the proficiency testing of the GTFCh.

ACQ-TDMC	TDM - Neuroleptics in serum	6 x 4 ml	Serum (freeze dried)
	Aripiprazole		
	Flupentixol (cis)		
	Fluphenazine		
	Haloperidol		
	Sertindol		
	Sulpiride		
	Zotepine		
ACQ-TDMA	TDM - Neuroleptics in serum	6 x 3 ml	Serum (freeze dried)
	Clozapine		
	Desmethyloclazapine		
	Olanzapine		
	Quetiapine		
	Amisulpride		
	Perazine		
	Risperidone		
	9-OH-Risperidone		
	Ziprasidone		
	Citalopram		

Please enquire for availability and current batch target values.

For ordering and information about prices and delivery in your country, please contact your local distributor:



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