

PHARMACEUTICAL CHEMISTRY

2026-27

DRUGS ACTING ON CNS

PART-
2

D.PHARM 1ST YEAR



Chapter-5 (Part-2)

Drugs acting on CNS.

Antipsychotics

* Antipsychotic agents are used for the symptomatic treatment of psychotic conditions such as mania, schizophrenia, & behavioural disorders in children/adults.

Benzisoxazoles
e.g. risperidone

Classification
of
Antipsychotics.

Phenothiazines
e.g. chlorpromazine
HCl

Benzamides
e.g. Sulphate

Thioxanthines
e.g. thiothixene

Butyrophenones
e.g. haloperidol

Chlorpromazine Hydrochloride:

* Properties:

- it occurs as white to creamy white color powder having amine like odour.
- it is practically insoluble in water.
- it is bitter in taste.

Storage — it must be stored in air-tight containers.

Uses: —

→ It is used as an antipsychotic agent

→ It is used as an antiemetic agent.

Formulations: — Tablets / Capsules / Suspensions / injections.

Brand Names: — Largactil

Haloperidol :-

* Properties -

- colorless amorphous powder.
- Insoluble in water.
- Soluble in alcohol.
- It is odorless.

Storage :-

It must be stored in air-tight containers

Uses :-

- it is used in the treatment of psychotic conditions.
- it is also used in the treatment of behavioural disorders.

Formulations :-

Tablets / drops / injections.

Brand Name :- Serenace etc.

Risperidone :-

Properties :-

- white to slightly beige colour powder.
- Insoluble in water.
- Freely soluble in methylene chloride.

Storage :- it must be stored in air-tight containers.

Uses :-

- it is used in the treatment of schizophrenia.
- it is also used in acute mania episode.

Formulations -

Tablets / solutions / powder for injection.

Brand Name -

Benzix, Krizp, Genrest etc.

Sulpiride :-

Properties -

- white crystalline powder.
- insoluble in water.
- soluble in organic solvents such as ethanol.

Storage :- it must be stored in air-tight containers.

Uses :-

→ it is used in the treatment of psychotic conditions (schizophrenia, mood elevating properties).

Formulations — Tablets.

Brand Name — Stixide etc.

Olanzapine:-

Properties -

- it occurs as yellow crystalline powder.
- practically insoluble in water.
- soluble in organic solvents such as ethanol etc.

Storage - it should be stored in airtight containers.

Uses:- Used to treat schizophrenia.

Formulations:- tablets.

Brand Names:- Ofanz, Olmapra etc.

Chetiapine :-

Properties :-

- it occurs as white crystalline powder.
- poorly soluble in water and slightly soluble in ethanol.

Storage :- it should be stored in air-tight containers.

Uses :- it is used to treat schizophrenia and also used as an antidepressant drug.

Formulations — Tablets.

Brand Names — Chetipin, Chetan SR etc.

Lurasidone :-

Properties :-

- white to off-white color crystalline powder.
- Insoluble in water.
- Sparingly soluble in methanol & ethanol.

Storage — airtight containers.

Uses — psychotic conditions (schizophrenia).

Formulations — Tablets.

Brand Names — Altura, Tablura etc.

THANK

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