













PROFLAVINE

- Molecular formula CI3HIN3
- Moler mass 209.25 g/mol.
- IUPAC Name 3,6-diamino acridine
- Chemical structure

DEFINITION

Proflavine is an acriflaving derivatives having bacteriostatic action against many gram (+) bacteria.

It shows mutagenic effect by deletion or insertion of base pair in DNA molecules.

It can also induce double stranded breaks in DNA in the presence of light.

PROPERTIES

PHYSICAL PROPERTIES-

- Colour and state It is orange red or brown red crystalline powder.
- Odour and taste It is odourless and shows bitter in taste.
- Solubility It is soluble in water and ethanol and insoluble in benzene and ether.
- Melting point-281C Boilling point-338.6C And density about 1.1g/cm3.

CHEMICAL PROPERTIES

Proflavine chemically very active and reacts with the potassium ferricyanide and forms the ferriccyanide salts in the presence of acidic medium.

PHARMACEUTICAL USES OF PROFLAVINE

- It is most active against the gram (+) bacteria and show bacteriostatic action.
- It is used to treat local infection of throat, mouth and ears
- It is effectively used in the treatment of infected wounds, burn and skin infections
- It is also used as urinary antiseptic.

STABILITY AND STORAGE CONDITIONS

• It is hygroscopic in nature and highly sensitive against the light thus it is stored in tightly pack well closed containers.

TYPE OF PHARMACEUTICAL FORMULATIONS— PROFLAVINE CREAM

Brand name —

- · Profoliol,
- lorexane,
- acrilin,
- isoflavbase,
- protex-G.