

NARCOTIC ANTAGONIST

The drugs, which competitively antagonise the effects of opioids by blocking specific opioid receptors.

↳ having greater affinity than opioids

Martin & Gilbert (1977) postulated that there are mainly three types of opioid receptors

- ① μR - Analgesia, Sedation, addiction, Euphoria, respiratory depression, & \downarrow GI motility
- ② κR - Spinal analgesia, Sedation, Dysphoria
- ③ δR - Analgesia, addiction, antidepressant
- ④ σR - produce hallucination, & Respiratory stimulation

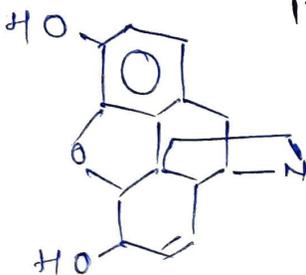
Drugs (Antagonist)

- ① Pure Antagonist - Naloxone ✓
- ② Partial Antagonist - Nalorphine ✓ & Levallorphan ✓
- ③ Partial Agonist - Propiram & profadol ✓

Uses -

- ① used in opioid overdose to reduce the effects
- ② overcoming the opioid addiction
- ③ Also used in treatment of alcohol addiction

① Nalorphine hydrochloride

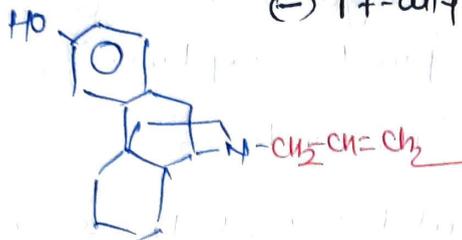


17-allyl-7,8-didehydro-4,5-epoxy morphinan-3,6-diol.

↳ MOA - μR blocker
 κR agonist

↳ USE - ~~##~~ Morphine / opioid Overdose

② Levallorphan Tartrate



(-) 17-allyl morphinans - 3rd CE

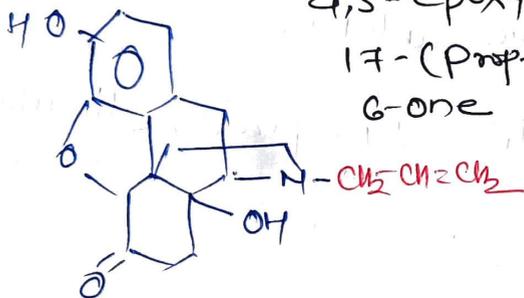
μ R blocker

κ R Agonist

Use = ① treatment of respiratory depression due to narcotic overdose

②

③ Naloxone hydrochloride



4,5-epoxy-3,4-dihydroxy-

17-(Prop-2-enyl) morphinans -
6-one

M/OA = Pure Antagonist - μ R > δ R > κ R

Uses - # narcotic overdose

antidote for clonidine

used along with opioids to reduce narcotic side effects.