Naloxone hydrochloride dihydrate

Product Number N 7758
Storage Temperature 2-8 °C

Product Description
Molecular Formula: C_{19}H_{21}NO_{4} \cdot HCl
Molecular Formula: 399.9
CAS Number: 51481-60-8
Melting Point: 200-205 °C
Synonyms: (5α(-4,5-epoxy-3,14-dihydroxy-17-(2-propenyl)morphinan-6-one hydrochloride dihydrate; 17-allyl-4,5α-epoxy-3,14-dihydroxymorphinan-6-one hydrochloride dihydrate)

Naloxone is a specific, competitive opioid antagonist that acts at opioid receptors with agonist or mixed agonist-antagonist activity. In conjunction with calcium salts, naloxone has been proposed to participate in control of calcium turnover and the pain and functional activity of endocrine glands, by means of the down regulation and desensitization of opioid receptor and protein kinase C stimulation. Naloxone is studied in addiction research and alcoholism research.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (50 mg/ml), yielding a clear, colorless to yellow solution.

References
1. The Merck Index, 12th ed., Entry# 6449.