Percodan

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Introducing Oxycodone

- Percodan’s principle drug is oxycodone
- Synonyms include
  - Dihydro-14-hydroxy-codeinone
  - Dihydrone
  - Oxanest
  - Oxicon
- 4,5-alpha-epoxy-14-hydroxy-3-methoxy-17-methyl-morphinan-6-one


ChemCAS. MSDS Morphinan-6-one, 4,5-alpha-epoxy-14-hydroxy-3-methoxy-17-methyl-.

Use

- Treatment of moderate pain
- 5 mg of oxycodone per tablet
- 5 tablets daily average prescription


Misuse

- 30 tablets daily in some cases
- Death by toxicity for patients with poor 2D6 metabolism


Synthesis

- Thebaine is extracted from poppy straw
- It is first oxidized to 14-hydroxycodeinone
- Then it is reduced to Oxycodone.

Proton NMR

- Proton NMR [400MHz, CDCl$_3$, $\delta$ ppm]: 1.55 (1H, m), 1.63 (1H, d), 1.83 (1H, d), 2.15 (1H, t), 2.26 (2H, m), 2.37-2.41 (4H, s+m), 2.42 (1H, m), 2.57 (1H, dd), 2.83 (1H, d), 2.98 (1H, t), 3.12 (1H, d), 3.88 (3H, s), 4.64 (1H, s), 5.05 (1H, br), 6.61 (1H, d), 6.67 (1H, d)

Carbon NMR

- Carbon NMR [25.2 MHz, H$_2$O, δ ppm]: 23.3, 27.3, 30.7, 34.7, 41.2, 47.1, 48.7, 56.7, 66.4, 70.7, 89.3, 122.6, 127.1, 144.0, 142.6, 115.4, 121.0, 210.8

Mass Spectrometry

- Mass Spectrometry [10 μl sample loop, 5kV capillary voltage, 40V orifice voltage]: 315(15), 298(100), 256(40), 241(40), 224(10), 213(11), 187(19).

Summary

- Percodan’s active compound
- Used for moderate pain relief
- Is synthesized from the thebaine
- Oxycodone can analyzed using a variety of spectroscopic methods

