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Product Information

Cat. No. D-203

DIPRENORPHINE

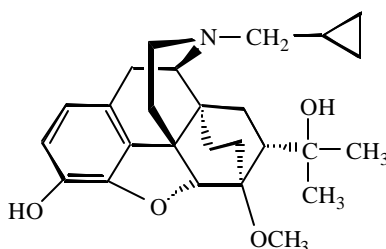
Potent opioid antagonist.

Mol. Formula: C₂₆H₃₅N₂O₄

Mol. Wt.: 425.57 (anhyd.)

m.p.: 192-193°C

CAS Registry No.: 14357-78-9



Chemical Name: (5 α ,7 α)-17-(Cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy- α,α -dimethyl-6,14-ethenomorphinan-7-methanol

Physical Properties: White solid.

Caution: The pharmacology of this compound is incompletely characterized and due care should be exercised in its use. Avoid skin contact, ingestion or inhalation.

Storage: Store tightly sealed at room temperature.

Solubility: Soluble in ethanol (4 mg/ml) or dilute aqueous acid (8.5 mg/ml); insoluble in water.

Disposal: Dissolve or mix the compound with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

References:

1. Iwasaki, Y., Gaskill, M.B., Boss, C.A., Robertson, G.L. "The effect of the nonselective opioid antagonist diprenorphine on vasopressin secretion in the rat." *Endocrinology* **134**, 48-54 (1994).
2. Villemagne, V.L., Frost, J.J., Dannals, R.F., Lever, J.R., Tanada, S., Natarajan, T.K., Wilson, A.A., Ravert, H.T., Wagner Jr., H.N. "Comparison of [¹¹C]diprenorphine and [¹¹C]carfentanil *in vivo* binding to opiate receptors in man using a dual detector system." *Eur. J. Pharmacol.* **257**, 195-197 (1994).
3. Ruiz-Gayo, M., Baamonde, A., Turcaud, S., Fournie-Zaluski, M.C. "In vivo occupation of mouse brain opioid receptors by endogenous enkephalins: Blockade of enkephalin degrading enzymes by RB 101 inhibits [³H]diprenorphine binding." *Brain Res.* **571**, 306-312 (1992).

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Rev. 11/95

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