

## Product Information

Cat. No. D-203

### DIPRENORPHINE

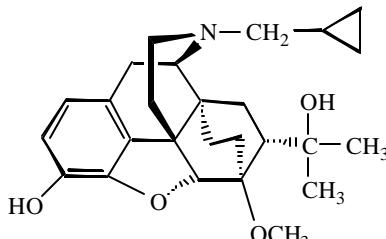
Potent opioid antagonist.

**Mol. Formula:** C<sub>26</sub>H<sub>35</sub>NO<sub>4</sub>

**Mol. Wt.:** 425.57 (anhyd.)

**m.p.:** 192-193°C

**CAS Registry No.:** 14357-78-9



**Chemical Name:** (5 $\alpha$ ,7 $\alpha$ )-17-(Cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy- $\alpha$ , $\alpha$ -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 [<sup>11</sup>C]diprenorphine and [<sup>11</sup>C]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 [<sup>3</sup>H]diprenorphine binding." *Brain Res.* **571**, 306-312 (1992).

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