



Product Information

Cat. No. M3528

MORPHINE-6-B-D-GLUCURONIDE DIHYDRATE--DEA
SCHEDULE II
M6G

Major metabolite of morphine (Cat. No. M-122).

Mol. Formula: C₂₃H₂₇NO₉

Mol. Wt.: 461.47 (anhyd.)

m.p.: 235-238°C (dec.)

CAS Registry No.: 20290-10-2

Chemical Name: (5 α ,6 α)-7,8-Didehydro-4,5-epoxy-3-hydroxy-17-methylmorphinan-6-yl- β -D-glucopyranosiduronic acid

Physical Properties: White photosensitive solid.

Caution: While no human toxicity data is available for this substance, it should be handled with care. Precautions should be taken to avoid contact by all routes of exposure. RTECS No. LZ6500700.

Storage: Store tightly sealed at -20°C, protected from exposure to light.

Solubility: Soluble in water (4.2 mg/ml).

Disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. This product is controlled by the Drug Enforcement Administration. Appropriate security must be maintained until the substance is destroyed. Records must be kept which detail the ultimate disposition of the material. OBSERVE ALL LOCAL, STATE AND FEDERAL LAWS.

References:

1. Frances, B. et al. "Further evidence that morphine-6 β -glucuronide is a more potent opioid agonist than morphine." *J. Pharmacol. Exp. Ther.* **262**, 25-31 (1992).
2. Thompson, P.I. et al. "Morphine-6 β -glucuronide: A metabolite of morphine with greater emetic potency than morphine in the ferret." *Br. J. Pharmacol.* **106**, 3-8 (1992).
3. Gong, Q.L. et al. "Antinociceptive and ventilatory effects of the morphine metabolites: Morphine-6-glucuronide and morphine 3-glucuronide." *Eur. J. Pharmacol.* **193**, 47-56 (1991).
4. Sullivan, A.F. et al. "The spinal antinociceptive actions of morphine metabolites morphine-6-glucuronide and normorphine in the rat." *Brain Res.* **482**, 219-224 (1989).
5. Paul, D. et al. "Pharmacological characterization of morphine-6- β -glucuronide, a very potent morphine metabolite." *J. Pharmacol. Exp. Ther.* **251**, 477-83 (1989).
6. Osborne, R. et al. "Analgesic activity of morphine-6-glucuronide." *The Lancet* April 9, 1988, p. 828.

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