

Product Information

Cat. No. P-127

(+)-PENTAZOCINE

Sigma receptor agonist; narcotic analgesic;
active enantiomer of (±)-Pentazocine, Cat. No. P-144.

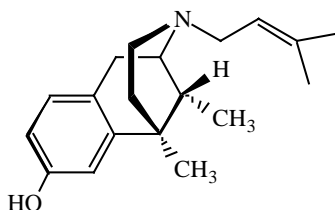
Mol. Formula: C₁₉H₂₇NO

Mol. Wt.: 285.43 (anhyd.)

m.p.: 179-180°C

CAS Registry No.: 7361-76-4

Chemical Name: (+)-[2S-(2α,6α,11R*)]-1,2,3,4,5,6-Hexahydro-6,11-dimethyl-3-(3-methyl-2-butenyl)-2,6-methano-3-benzazocin-8-ol



Physical Properties: White photosensitive solid; $[\alpha]_D^{23} = +134.6^\circ$ (c = 1, CHCl₃).

Caution: This substance should be handled with care. Precautions should be taken to avoid contact by all routes of exposure. RTECS No. PB8750000.

Storage: Store tightly sealed at room temperature, protected from exposure to light.

Solubility: A 10 mM solution of (+)-pentazocine is prepared by warming 28.5 mg of (+)-pentazocine free base in 2 ml of 0.1N HCl with shaking or sonication. When all solids have dissolved, the solution is cooled to room temperature and diluted to 10 ml with pH 7 buffer. Solutions should be freshly prepared, since cooling below room temperature may result in precipitation of the compound.

Disposal: Dissolve or mix the compound 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.

References:

1. *Merck Index 12th Ed.*, No. 7261.
2. Brogden, R.N., Speight, T.M., Avery, G.S. "Pentazocine: A review of its pharmacological properties, therapeutic efficacy and dependence liability." *Drugs* **5**, 6-91 (1973).
3. Wilson, T.D. "Pentazocine." *Anal. Profiles Drug Subst.* **13**, 361-416 (1984).
4. Steinfels, G.F., Alberici, G.P., Tam, S.W., Cook, L. "Biochemical, behavioral and electro-physiologic actions of the selective sigma receptor ligand (+)-pentazocine." *Neuropsychopharmacology* **1**, 321-327 (1988).

CONTROLLED SUBSTANCE - DEA LICENSE REQUIRED (IV)

Rev. 8/97

Sigma-RBI brand products are sold through Sigma-Aldrich, Inc.
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.
Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.
Please see reverse side of the invoice or packing slip.