

Product Name: (-)-Pentazocine

Catalog No.: 5519

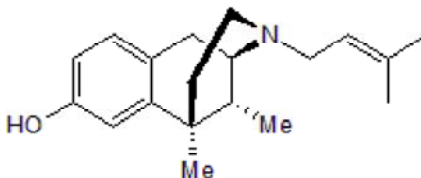
Batch No.: 2

CAS Number: 7488-49-5

IUPAC Name: (2*R*,6*R*,11*R*)-1,2,3,4,5,6-Hexahydro-6,11-dimethyl-3-(3-methyl-2-buten-1-yl)-2,6-methano-3-benzazocin-8-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₇ NO
Batch Molecular Weight:	285.42
Physical Appearance:	White crystalline solid
Solubility:	1eq. HCl to 100 mM DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.22 (Dichloromethane:Methanol [4:1])
HPLC:	Shows >99.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = -118.9 (Concentration = 0.19, Solvent = Chloroform)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

κ-opioid agonist. Displays antinociceptive in vivo.

Physical and Chemical Properties:

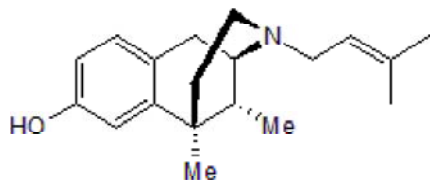
Batch Molecular Formula: C₁₉H₂₇NO

Batch Molecular Weight: 285.42

Physical Appearance: White crystalline solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. HCl to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 3 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Mori *et al* (2015) Effects of (+)-pentazocine on the antinociceptive effects of (-)-pentazocine in mice. *Synapse* **69** 166. PMID: 25559075.

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