

Certificate of Analysis

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Product Name: Carbetapentane citrate

Catalog No.: 0454

Batch No.: 1

CAS Number: 23142-01-0

EC Number: 245-449-5

IUPAC Name: 1-Phenylcyclopentanecarboxylic acid 2-(2-diethylaminoethoxy)ethyl ester citrate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{31}NO_3 \cdot C_6H_8O_7$

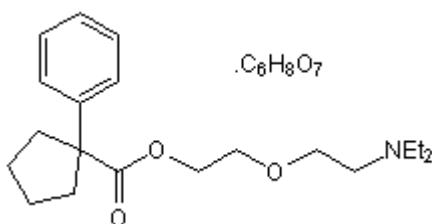
Batch Molecular Weight: 525.6

Physical Appearance: White solid

Solubility: DMSO to 75 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 93 - 94°C

HPLC: Shows >99.9% purity

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	59.41	7.48	2.66
Found	59.66	7.51	2.59

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

Product Information

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IUPAC Name: 1-Phenylcyclopentanecarboxylic acid 2-(2-diethylaminoethoxy)ethyl ester citrate

Description:

A selective ligand for the σ_1 -site.

Physical and Chemical Properties:

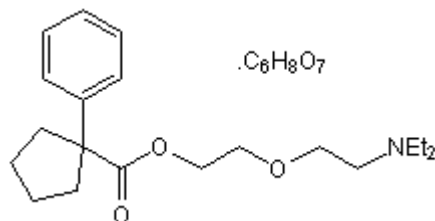
Batch Molecular Formula: $C_{20}H_{31}NO_3 \cdot C_6H_8O_7$

Batch Molecular Weight: 525.6

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 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.

References:

Rothman et al (1991) Labelling by [³H]1,3-di(2-tolyl)guanidine of two high affinity binding sites in guinea pig brain: evidence for allosteric regulation by calcium channel antagonists and pseudoallosteric modulation by σ ligands. *Mol.Pharmacol.* **39** 222. PMID: 1847495.

Quirion et al (1992) A proposal for the classification of sigma binding sites. *TIPS* **13** 85. PMID: 1315463.

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