

Product Name: Telenzepine dihydrochloride

Catalog No.: 1122

Batch No.: 6

CAS Number: 147416-96-4

IUPAC Name: 4,9-Dihydro-3-methyl-4-[(4-methyl-1-piperazinyl)acetyl]-10H-thieno[3,4-b][1,5]benzodiazepin-10-one dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₂N₄O₂S.2HCl.3H₂O

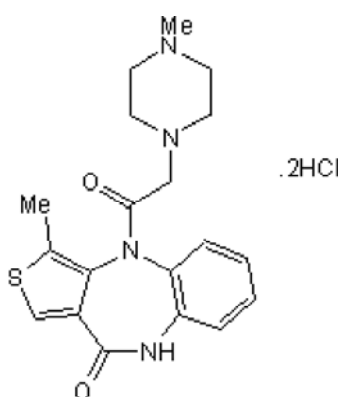
Batch Molecular Weight: 497.44

Physical Appearance: Off White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.88	6.08	11.26
Found	45.55	6.02	11.3

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

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Description:

Selective high affinity muscarinic M₁ receptor antagonist (K_i = 0.94 nM). Inhibits gastric acid secretion.

Physical and Chemical Properties:

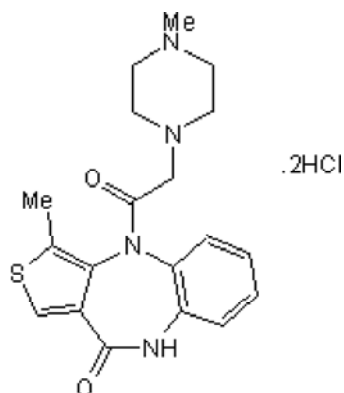
Batch Molecular Formula: C₁₉H₂₂N₄O₂S.2HCl.3H₂O

Batch Molecular Weight: 497.44

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water 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.

References:

Christofi et al (1991) Neuropharmacology of the muscarinic antagonist telenzepine in myenteric ganglia of the guinea-pig small intestine. *Eur.J.Pharmacol.* **195** 333. PMID: 1868879.

Galvan et al (1989) Interaction of telenzepine with muscarinic receptors in mammalian sympathetic ganglia. *Eur.J.Pharmacol.* **167** 1. PMID: 2776837.

Eltze et al (1985) Pharmacological evidence for selective inhibition of gastric acid secretion by telenzepine, a new antimuscarinic drug. *Eur.J.Pharmacol.* **112** 211. PMID: 4029260.

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