

Certificate of Analysis

Product Name: CP 99994 dihydrochloride

Catalog No.: 3417

Batch No.: 1

CAS Number: 145148-39-6

IUPAC Name: (2S,3S)-N-[(2-Methoxyphenyl)methyl]-2-phenyl-3-piperidinamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₄N₂O.2HCl.¼H₂O

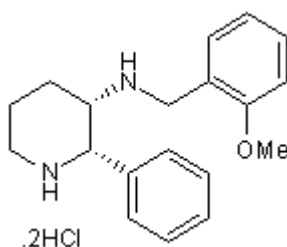
Batch Molecular Weight: 373.83

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	61.05	7.14	7.49
Found	61.03	7.14	7.56

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

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Description:

High affinity NK₁ antagonist (K_i = 0.145 nM in vitro). Also displays high ex vivo binding potency in gerbil striatum (IC₅₀ = 36.8 nM). Attenuates endothelium-dependent contraction induced by substance P.

Physical and Chemical Properties:

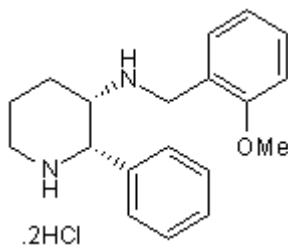
Batch Molecular Formula: C₁₉H₂₄N₂O.2HCl.¼H₂O

Batch Molecular Weight: 373.83

Physical Appearance: White solid

Minimum Purity: >99%

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:

Shirahase et al (1995) Endothelium-dependent contraction in intrapulmonary arteries: mediation by endothelial NK₁ receptors and TXA₂. Br.J.Pharmacol. **115** 1215. PMID: 7582548.

Duffy et al (2002) Correlation of neurokinin (NK) 1 receptor occupancy in gerbil striatum with behavioral effects of NK1 antagonists. J.Pharmacol.Exp.Ther. **301** 536. PMID: 11961054.

Lindstrom et al (2007) Neurokinin 1 receptor antagonists: correlation between in vitro receptor interaction and in vivo efficacy. J.Pharmacol.Exp.Ther. **322** 1286. PMID: 17575073.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956