

Certificate of Analysis

Product Name: CP 96345

Catalog No.: 2893

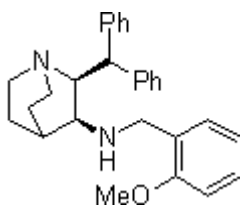
Batch No.: 1

CAS Number: 132746-60-2

IUPAC Name: (2S,3S)-N-(2-Methoxyphenyl)methyl-2-diphenylmethyl-1-azabicyclo[2.2.2]octan-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₃₂ N ₂ O
Batch Molecular Weight:	412.57
Physical Appearance:	White solid
Solubility:	DMSO to 20 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = -24.2 (Concentration = 1, Solvent = DCM)
Microanalysis:	
	Carbon Hydrogen Nitrogen
Theoretical	81.51 7.82 6.79
Found	81.5 7.82 6.86

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

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Description:

Potent and selective non-peptide NK₁ receptor antagonist. Attenuates substance P-induced salivary response and inhibits neurogenic inflammation in vivo.

Physical and Chemical Properties:

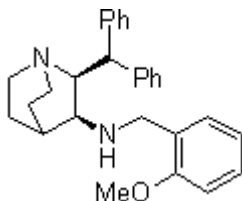
Batch Molecular Formula: C₂₈H₃₂N₂O

Batch Molecular Weight: 412.57

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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:

Snider *et al* (1991) A potent nonpeptide antagonist of the substance P (NK1) receptor. *Science* **251** 435. PMID: 1703323.

Lembeck *et al* (1992) The non-peptide tachykinin antagonist, CP-96,345, is a potent inhibitor of neurogenic inflammation. *Br.J.Pharmacol.* **105** 527. PMID: 1378337.

Bang *et al* (2003) Neurokinin-1 receptor antagonists CP-96,345 and L-733,060 protect mice from cytokine-mediated liver injury. *J.Pharmacol.Exp.Ther.* **305** 31. PMID: 12649350.

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