

Certificate of Analysis

Product Name: SKF 86466 hydrochloride

Catalog No.: 3866

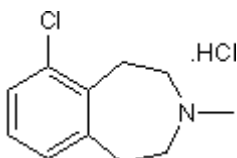
Batch No.: 1

CAS Number: 86129-54-6

IUPAC Name: 6-Chloro-N-methyl-2,3,4,5-tetrahydro-1-H-3-benzazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄ClN.HCl
Batch Molecular Weight: 232.15
Physical Appearance: Off-white solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.52 (Chloroform:Methanol [9:1])
HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.91	6.51	6.03
Found	57	6.58	5.99

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

Product Name: SKF 86466 hydrochloride

Catalog No.: 3866

Batch No.: 1

CAS Number: 86129-54-6

IUPAC Name: 6-Chloro-N-methyl-2,3,4,5-tetrahydro-1-H-3-benzazepine hydrochloride

Description:

Potent and selective α_2 antagonist at pre- and post-junctional α_2 -adrenoceptors (K_i values are 13 and 17 nM respectively). Exhibits antihypertensive activity in a rat model.

Physical and Chemical Properties:

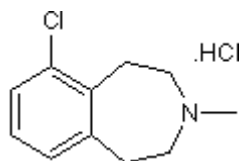
Batch Molecular Formula: C₁₁H₁₄ClN.HCl

Batch Molecular Weight: 232.15

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water 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.

References:

Hieble *et al* (1985) Selective Alpha-2 adrenoceptor blockade by SK&F 86466: in vitro characterization of receptor sensitivity. *J.Pharmacol.Exp.Ther.* **236** 90.

Roesler *et al* (1986) Characterization of the antihypertensive activity of SK&F 86466, a selective alpha-2 antagonist, in the rat. *J.Pharmacol.Exp.Ther.* **236** 1. PMID: 2867209.

Schafers *et al* (1990) An evaluation of the alpha-adrenoceptor antagonism produced by SK&F 86466 in healthy normotensive males. *Br.J.Clin.Pharmacol.* **30** 884. PMID: 1981137.

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

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