

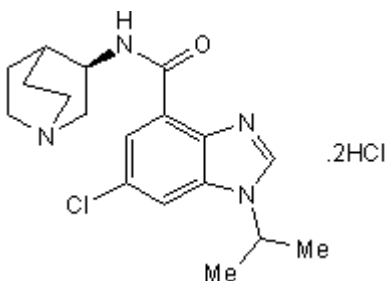
Certificate of Analysis

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Product Name: RS 16566 dihydrochloride **Catalog No.:** 1015 **Batch No.:** 4
CAS Number: 1217788-97-0
IUPAC Name: (R)-N-1-Azabicyclo[2.2.2]oct-3-yl-6-chloro-1-(1-methylethyl)-1H-benzimidazole-4-carboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃ClN₄O.2HCl.1½H₂O
Batch Molecular Weight: 446.8
Physical Appearance: White solid
Solubility: water to 10 mM
 phosphate buffered saline to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.49 (Dichloromethane:Methanol [8:2])
Melting Point: At 190°C
HPLC: Shows >98.1% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.39	6.32	12.54
Found	48.67	6.11	12.39

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

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Description:

High affinity ligand for the (R)-zacopride binding site (pK_i 9.84).

Physical and Chemical Properties:

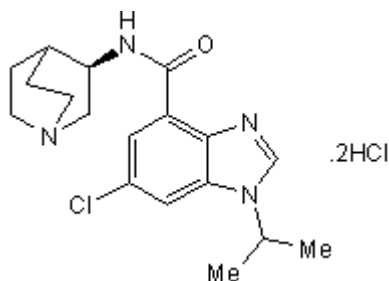
Batch Molecular Formula: C₁₈H₂₃ClN₄O.2HCl.1½H₂O

Batch Molecular Weight: 446.8

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM

phosphate buffered saline to 10 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:

Flippin et al (1996) (R)-3-(6-Chloro-1-isopropylbenzimidazole-4-carboxamido)quinuclidine: a high affinity ligand for the (R)-zacopride binding site. *Bioorg.Med.Chem.Lett.* **6** 477.

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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