

Certificate of Analysis

Product Name: BRL 52537 hydrochloride

Catalog No.: 0699

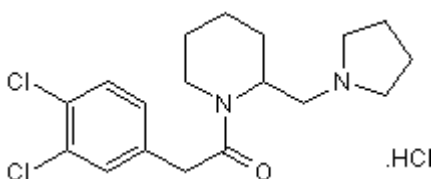
Batch No.: 3

CAS Number: 112282-24-3

IUPAC Name: (±)-1-(3,4-Dichlorophenyl)acetyl-2-(1-pyrrolidiny)methylpiperidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₄Cl₂N₂O.HCl.¼H₂O
Batch Molecular Weight: 396.27
Physical Appearance: White solid
Solubility: water to 5 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: Between 247 - 249°C
HPLC: Shows >98.5% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.56	6.49	7.07
Found	54.55	6.57	6.95

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

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Description:

The most κ/μ-selective and among the most potent κ ligands known (25 times more potent than morphine in vivo).

Physical and Chemical Properties:

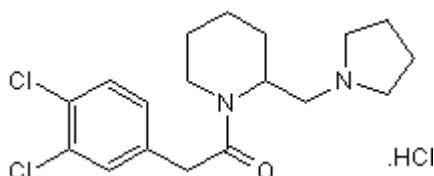
Batch Molecular Formula: C₁₈H₂₄Cl₂N₂O.HCl.¼H₂O

Batch Molecular Weight: 396.27

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 5 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:

Vecchietti et al (1991) (2S)-1-(Arylacetyl)-2-(aminomethyl)piperidine derivatives: novel, highly selective κ opioid analgesics. *J.Med.Chem.* **34** 397. PMID: 1846921.

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