

Product Name: NESS 0327

Catalog No.: 5746

Batch No.: 1

CAS Number: 494844-07-4

IUPAC Name: 8-Chloro-1-(2,4-dichlorophenyl)-1,4,5,6-tetrahydro-*N*-1-piperidinyl-benzo[6,7]cyclohepta[1,2-*c*]pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₃Cl₃N₄O·¼H₂O

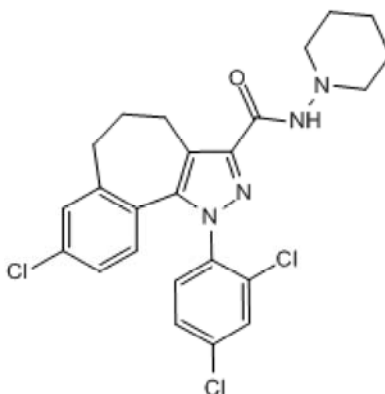
Batch Molecular Weight: 494.32

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.31	4.79	11.33
Found	58.1	4.66	11.43

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

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Description:

Ultra high affinity and selective CB₁ receptor antagonist (K_i = 350 nM). Exhibits >60-fold selectivity for CB₁ over CB₂ receptors. Antagonizes the inhibitory effects of WIN 55,212-2 (Cat. No. 1038) on electrically evoked contractions in mouse isolated vas deferens *ex vivo*. Also antagonizes the antinociceptive effect of WIN 55,212-2 in tail-flick and hot plate tests *in vivo*.

Physical and Chemical Properties:

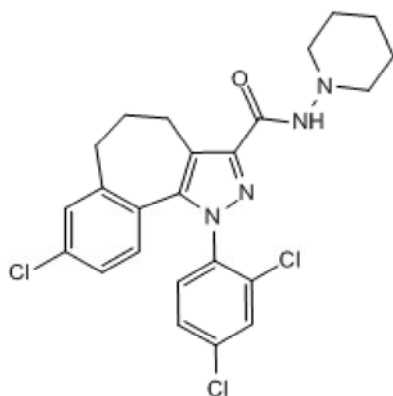
Batch Molecular Formula: C₂₄H₂₃Cl₃N₄O.¼H₂O

Batch Molecular Weight: 494.32

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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:

Ruiu *et al* (2003) Synthesis and characterization of NESS 0327: a novel putative antagonist of the CB₁ cannabinoid receptor. *J.Pharmacol.Exp.Ther.* **306** 363. PMID: 12663689.

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