Certificate of Analysis

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Product Name: FPS ZM1

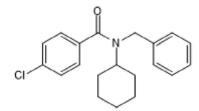
CAS Number: 945714-67-0 **IUPAC Name:** 4-Chloro-N-cyclohexyl-N-(phenylmethyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₀H₂₂CINO 327.85 White solid DMSO to 100 mM ethanol to 100 mM Store at -20°C



2. ANALYTICAL DATA

Storage:

TLC: HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

R_f = 0.08 (CH2Cl2:Petrol 1:1) Shows 99.7% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 73.27 6.76 4.27 Found 73.41 6.85 4.22

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

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Catalog No.: 6237 Batch No.: 1

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Print Date: Sep 5th 2017

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Product Name: FPS ZM1

CAS Number: 945714-67-0 IUPAC Name: 4-Chloro-*N*-cyclohexyl-*N*-(phenylmethyl)benzamide

Name. 4-Chioro-/v-cycio

Description:

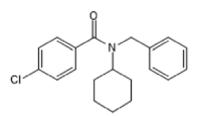
High affinity antagonist of the receptor for advanced glycation end products (RAGE) (K_i = 25 nM). Blocks A β binding to the V domain of RAGE and inhibits A β 40- and A β 42-induced cellular stress in RAGE-expressing cells in vitro and in the mouse brain in vivo. Blocks β -secretase activity, A β production, microglia activation and neuroinflammation in vivo. BBB permeable.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₂CINO Batch Molecular Weight: 327.85 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM ethanol 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:

Hong et al (2016) Effects of RAGE-Specific Inhibitor FPS-ZM1 on Amyloid-ß Metabolism and AGEs-Induced Inflammation and Oxidative Stress in Rat Hippocampus. Neurochem.Res. 41 1192. PMID: 26738988.

Deane *et al* (2012) A multimodal RAGE-specific inhibitor reduces amyloid ß-mediated brain disorder in a mouse model of Alzheimer disease. J.Clin.Invest. **122** 1377. PMID: 22406537.

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