



Certificate of Analysis

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Product Name: CS 2100 Catalog No.: 4543 Batch No.: 1

CAS Number: 913827-99-3

IUPAC Name: 1-[[4-Ethyl-5-[5-(4-phenoxyphenyl)-1,2,4-oxadiazol-3-yl]-2-thienyl]methyl]-3-azetidinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{23}N_3O_4S$

Batch Molecular Weight: 461.53
Physical Appearance: White solid

Solubility: DMSO to 5 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.1$ (Dichloromethane:Methanol [9:1])

HPLC: Shows 97.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 65.06 5.02 9.1 Found 64.97 5.01 8.93



Product Information

Print Date: Jan 14th 2016

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Description:

Sphingosine-1-phosphate receptor 1 (S1P₁) agonist (EC₅₀ = 4.0 nM). Exhibits 5000-fold selectivity for human S1P₁ over S1P₃. Displays efficacy in a rat adjuvant-induced arthritis model.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₅H₂₃N₃O₄S Batch Molecular Weight: 461.53 Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Nakamura *et al* (2012) Synthesis and evaluation of CS-2100, a potent, orally active and S1P₃-sparing S1P₁ agonist. Eur.J.Med.Chem. *51* 92. PMID: 22405291.

Nakamura et al (2012) Discovery of CS-2100, a potent, orally active and S1P₃-sparing S1P₁ agonist. Bioorg.Med.Chem.Lett. **22** 1788. PMID: 22264485.