

Product Name: SB 328437

Catalog No.: 3650

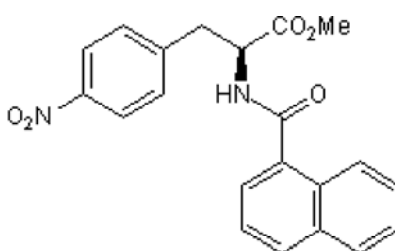
Batch No.: 2

CAS Number: 247580-43-4

IUPAC Name: *N*-(1-Naphthalenylcarbonyl)-4-nitro-L-phenylalanine methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₈N₂O₅
Batch Molecular Weight: 378.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +56.2 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.66	4.79	7.4
Found	66.31	4.74	7.5

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

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Description:

Potent and selective CCR3 antagonist ($IC_{50} = 4$ nM). Displays > 2500-fold selectivity over C5aR, LTD₄, CCR7, CXCR1 and CXCR2 receptors. Inhibits eotaxin-, eotaxin-2- and MCP-4-induced Ca²⁺ mobilization (IC_{50} values are 38, 35 and 20 nM respectively) and inhibits eotaxin-, eotaxin-2- and MCP-4-induced eosinophil chemotaxis with similar potencies.

Physical and Chemical Properties:

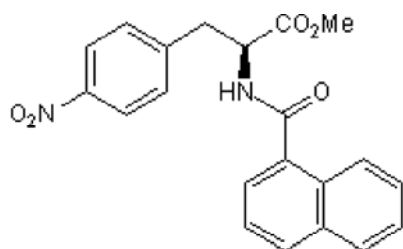
Batch Molecular Formula: C₂₁H₁₈N₂O₅

Batch Molecular Weight: 378.38

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Mori et al (2007) Selective suppression of Th2-mediated airway eosinophil infiltration by low-molecular weight CCR3 antagonists. *Int.Immunol.* **19** 913. PMID: 17804691.

Abonyo et al (2005) Autoregulation of CCL26 synthesis and secretion in A549 cells: a possible mechanism by which alveolar epithelial cells modulate airway inflammation. *Am.J.Physiol.Lung Cell.Mole.Physiol.* **289** L478.

White et al (2000) Identification of potent, selective non-peptide CC chemokine receptor-3 antagonist that inhibits eotaxin-, eotaxin-2-, and monocyte chemotactic protein-4-induced eosinophil migration. *J.Biol.Chem.* **275** 36626. PMID: 10969084.

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