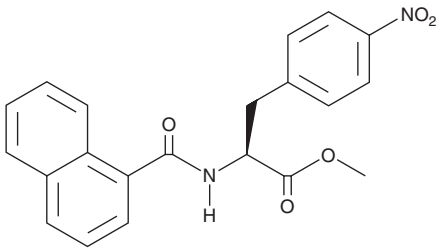
PRODUCT INFORMATION

SB-328437

Item No. 29677

CAS Registry No.: 247580-43-4
Formal Name: N-(1-naphthalenylcarbonyl)-4-nitro-L-phenylalanine, methyl ester
MF: $C_{21}H_{18}N_2O_5$
FW: 378.4
Purity: ≥98%
UV/Vis.: λ_{max}: 221, 278 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SB-328437 is supplied as a crystalline solid. A stock solution may be made by dissolving the SB-328437 in the solvent of choice, which should be purged with an inert gas. SB-328437 is soluble in the organic solvent DMSO at a concentration of approximately 100 mM.

Description

SB-328437 is a nonpeptide chemokine (C-C motif) receptor 3 (CCR3) antagonist (IC_{50} = 4.5 nM in a radioligand binding assay).[1] It is selective for CCR3 over chemokine (C-X-C motif) receptor 1 (CXCR1), CXCR2, CCR7, complement 3a receptor (C3aR), and C5aR (IC_{50}s = >27, >27, >33, >10, and >10 µM, respectively). SB-328437 (3.3-1,000 nM) inhibits calcium mobilization induced chemokine (C-C motif) ligand 11 (CCL11), CCL24, and CCL13 in RBL-2H3-CCR3 cells and eosinophils. *In vivo*, SB-328437 reduces pulmonary *Ccr3* mRNA expression, the number of eosinophils and monocytes in bronchoalveolar lavage fluid (BALF), and pulmonary IL-4 and TNF-α levels in a mouse model of asthma.[2]

References

1. White, J.R., Lee, J.M., Dede, K., *et al.* 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(47)**, 36626-36631 (2000).
2. Wang, T., Zhang, J.-Y., Wang, X.-D., *et al.* Effects of CCR3(chemokine receptor-3) on Muc5ac in airway of asthmatic mice. *Zhongguo Mianyixue Zazhi* **31(8)**, 1019-1023 (2015).

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