

Product Datasheet

SB 328437

Catalog No. **BP-00037** · CAS **247580-43-4** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-10-08**

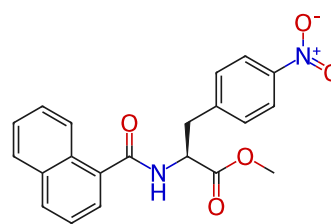
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Target CCR; Thymidylate Synthase	Research area Inflammation/Immunology; Cancer
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Molecular formula **C₂₁H₁₈N₂O₅**

Molecular weight **378.3780**

STRUCTURE



DESCRIPTION

SB-328437 is a potent, selective non-peptide CCR3 antagonist with an IC₅₀ of 4.5 nM. SB-328437 can inhibit eosinophil migration induced by eotaxin, eotaxin-2, and monocyte chemotactic protein-4. In addition, SB-328437 can sensitize 5-FU-resistant gastric cancer cells. SB-328437 can also reduce the recruitment of neutrophils to the lungs and pulmonary inflammation during acute inflammation. SB-328437 can be used in the research of inflammation-related diseases.

BIOLOGICAL ACTIVITY

In Vitro

SB-328437 (50 μM; 72 h) can reduce the viability of 5-FU-resistant AGS cells and inhibit the mRNA levels of CCR3 and thymidylate synthase, when used in combination with 5-FU (HY-90006).

In Vivo

SB-328437 (intraperitoneal injection; 5 g/kg; single dose) has a beneficial effect in mouse models of LPS (HY-D1056)-induced lung injury and influenza virus infection.

SOLUBILITY

Soluble in DMSO : 87.5 mg/mL

REFERENCES

- [1]. Gutiérrez ?, et al. Targeting CCR3 with antagonist SB 328437 sensitizes 5-fluorouracil-resistant gastric cancer cells: Experimental evidence and computational insights. *Oncol Lett.* 2024 May 1;28(1):296.
- [2]. Lopez-Leal F, et al. Blockade of the CCR3 receptor reduces neutrophil recruitment to the lung during acute inflammation. *J Leukoc Biol.* 2024 Nov 4;116(5):1198-1207.

[3]. White JR, 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. 2000 Nov 24;275(47):36626-31.

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