

Product Name: SB 225002

Catalog No.: 2725

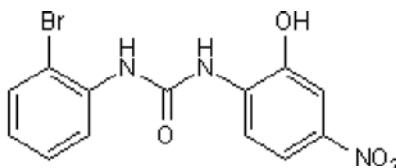
Batch No.: 2

CAS Number: 182498-32-4

IUPAC Name: *N*-(2-Bromophenyl)-*N'*-(2-hydroxy-4-nitrophenyl)urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₀BrN₃O₄
Batch Molecular Weight: 352.14
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.34	2.86	11.93
Found	44.37	2.96	11.95

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

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Description:

Potent and selective CXCR2 chemokine receptor antagonist (IC₅₀ = 22 nM) that displays > 150-fold selectivity over CXCR1 receptors. Causes inhibition of IL-8 and GRO α -mediated calcium mobilization in HL60 cells (IC₅₀ values are 8 and 10 nM respectively). Prevents IL-8-induced neutrophil chemotaxis in vitro and sequestration in vivo. Inhibits HIV replication in lymphocytes and macrophages.

Physical and Chemical Properties:

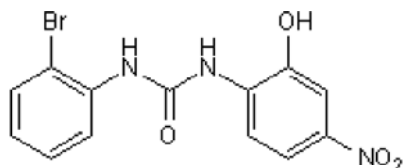
Batch Molecular Formula: C₁₃H₁₀BrN₃O₄

Batch Molecular Weight: 352.14

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline

References:

Catusse et al (2003) Characterization of the molecular interactions of interleukin-8 (CXCL8), growth related oncogen a (CXCL1) and a non-peptide antagonist (SB 225002) with the human CXCR2. *Biochem.Pharmacol.* **65** 813. PMID: 12628493.

Lane et al (2001) Interleukin-8 stimulates human immunodeficiency virus type 1 replication and is a potential new target for antiretroviral therapy. *J.Virol.* **75** 8195. PMID: 11483765.

White et al (1998) Identification of a potent, selective non-peptide CXCR2 antagonist that inhibits interleukin-8-induced neutrophil migration. *J.Biol.Chem.* **273** 10095. PMID: 9553055.

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