

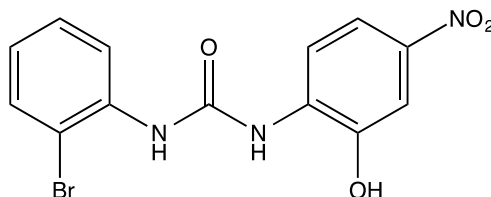
Catalog #10-2850

SB-225002

CAS# 182498-32-4

N-(2-Bromophenyl)-N'-(2-hydroxy-4-nitrophenyl)urea

Lot # X106801



Potent and selective CXCR2 receptor antagonist ($IC_{50} = 22$ nM). Displays >150-fold selectivity over CXCR1 receptors.¹ Induces apoptosis in both wild-type and p53-deficient ovarian cancer cells (OVCA) via p53 activation and by inducing mitotic catastrophe.² Blocks IL-8-mediated cellular effects such as oxidative stress-induced cellular senescence³ and neutrophil chemotaxis¹. Inhibits HIV replication in lymphocytes and macrophages.⁴ Inhibits endothelial activation and leukocyte recruitment to cerebral microvessels during neuroinflammation.⁵

- 1) 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
- 2) Du *et al.* (2013) *SB225002 Promotes Mitotic Catastrophe in Chemo-Sensitive and -Resistant Ovarian Cancer Cells Independent of p53 Status In Vitro*; PLoS One. **8** e54572
- 3) Shen *et al.* (2013), *Interleukin-8 prevents oxidative stress-induced human endothelial cell senescence via telomerase activation*; Int.Immunopharmacol. **16** 261
- 4) 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
- 5) Wu *et al.* (2015), *CXCR2 is essential for cerebral endothelial activation and leukocyte recruitment during neuroinflammation*; J.Neuroinflammation **12** 98

PHYSICAL DATA

Molecular Weight:	352.14
Molecular Formula:	C ₁₃ H ₁₀ BrN ₃ O ₄
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (35 mg/mL) and ethanol (15 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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