

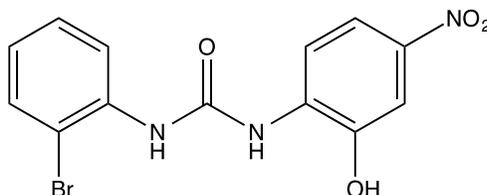
Catalog #10-2850

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: C₁₃H₁₀BrN₃O₄
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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com