

DATA SHEET

Product Name: SB-225002

Catalog #: N-3016

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

Molecular Mass: 352.14 C₁₃H₁₀BrN₃O₄

Analysis: >98% (HPLC); NMR (Conforms)

Supplied As: Yellow powder

Resuspension: May be dissolved in DMSO (35 mg/ml); or ethanol (15 mg/ml)

Storage: Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 1 month.

Description: Potent and selective CXCR2 receptor antagonist (IC₅₀ = 22 nM). Displays >150-fold selectivity over CXCR1 receptors¹. Induces apoptosis in both wild-type and p53-deficient ovarian cancer cells (OVCA) via p53 activation and by inducing mitotic catastrophe². Blocks IL-8-mediated cellular effects such as oxidative stress-induced cellular senescence³ and neutrophil chemotaxis¹. Inhibits HIV replication in lymphocytes and macrophages⁴. Inhibits endothelial activation and leukocyte recruitment to cerebral microvessels during neuroinflammation⁵.

References:

1. White, J.R., et al., (1998) J. Biol. Chem., 273: 10095
2. Du, M., et al., (2013) PLoS One, 8(1): e54572
3. Shen, X.H., et al., (2013) Int. Immunopharmacol., 16: 261
4. Lane, B.R., et al., (2001) J. Virol., 75: 8195
5. Wu, F., et al., (2015) J. Neuroinflammation, 12: 98

For research use only. Not for use in humans.