**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>(\text{C}<em>{13}\text{H}</em>{10}\text{BrN}<em>{3}\text{O}</em>{4})</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>352.14</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Yellow solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 100 mM, ethanol to 50 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at RT</td>
</tr>
</tbody>
</table>

### 2. ANALYTICAL DATA

- **TLC:** \(R_f = 0.29\) (Ethyl acetate:Petroleum ether [1:2])
- **HPLC:** Shows 99.2% purity
- **\(^1\text{H NMR:}\** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>44.34</td>
<td>2.86</td>
</tr>
<tr>
<td>Found</td>
<td>44.37</td>
<td>2.96</td>
</tr>
</tbody>
</table>

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**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 (IC\textsubscript{50} = 22 nM) that displays > 150-fold selectivity over CXCR1 receptors. Causes inhibition of IL-8 and GROα-mediated calcium mobilization in HL60 cells (IC\textsubscript{50} 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: C\textsubscript{13}H\textsubscript{10}BrN\textsubscript{3}O\textsubscript{4}
Batch Molecular Weight: 352.14
Physical Appearance: Yellow solid
Minimum Purity: >99%

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:
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.