1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  \( C_{15}H_{17}BrN_2O_2 \cdot HCl \)

**Batch Molecular Weight:** 373.67

**Physical Appearance:** Off White solid

**Solubility:**
- Water to 100 mM
- DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:**
- \( R_f = 0.25 \) (Ethyl acetate:Methanol [95:5])

**HPLC:**
- Shows >99.4% purity

**\(^1\)H NMR:**
- Consistent with structure

**Mass Spectrum:**
- Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>48.21</td>
<td>48.23</td>
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<tr>
<td>Hydrogen</td>
<td>4.86</td>
<td>4.83</td>
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<tr>
<td>Nitrogen</td>
<td>7.5</td>
<td>7.38</td>
</tr>
</tbody>
</table>
Product Name: OB 24 hydrochloride
Catalog No.: 6119  Batch No.: 1

CAS Number: 939825-12-4
IUPAC Name: 1-[[2-(2-(4-Bromophenyl)ethyl)-1,3-dioxolan-2-yl]methyl]-1H-imidazole hydrochloride

Description:
Potent and selective heme oxygenase 1 (HO-1) inhibitor (IC_{50} values are 1.9 and >100 μM for HO-1 and HO-2 respectively), reduces protein carbonylation and reactive oxygen species formation in advanced prostate cancer cells (PCA). Inhibits cell proliferation in vitro and PCA tumor growth and lymph node/lung metastases in vivo. Synergizes with Taxol (Cat. No. 1097).

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Solubility & Usage Info:
water to 100 mM
DMSO to 100 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.

References: