

## Certificate of Analysis

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**Product Name:** OB 24 hydrochloride

**Catalog No.:** 6119

**Batch No.:** 3

CAS Number: 939825-12-4

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>17</sub>BrN<sub>2</sub>O<sub>2</sub>.HCl

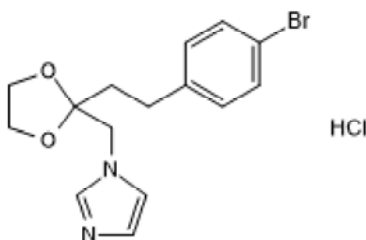
**Batch Molecular Weight:** 373.67

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 48.21  | 4.86     | 7.5      |
| Found       | 48.31  | 4.78     | 7.42     |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

OB 24 hydrochloride is a potent and selective heme oxygenase 1 (HO-1) inhibitor (IC<sub>50</sub> 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).

**Physical and Chemical Properties:**

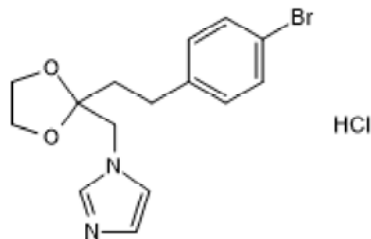
Batch Molecular Formula: C<sub>15</sub>H<sub>17</sub>BrN<sub>2</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 373.67

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Alaoui-Jamali et al** (2009) A novel experimental heme oxygenase-1-targeted therapy for hormone-refractory prostate cancer. *Cancer Res.* **69** 8017. PMID: 19808972.

**Storage:** Desiccate at RT

**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.

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