

Certificate of Analysis

www.tocris.com

Product Name: OB 24 hydrochloride

Catalog No.: 6119

Batch No.: 2

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: C₁₅H₁₇BrN₂O₂.HCl.

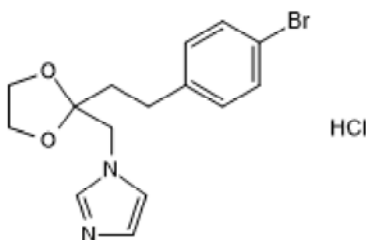
Batch Molecular Weight: 373.67

Physical Appearance: Off White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.21	4.86	7.5
Found	48.16	4.89	7.43

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: OB 24 hydrochloride

Catalog No.: 6119

Batch No.: 2

CAS Number: 939825-12-4

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

Description:

OB 24 hydrochloride is a potent and selective heme oxygenase 1 (HO-1) inhibitor (IC₅₀ 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:

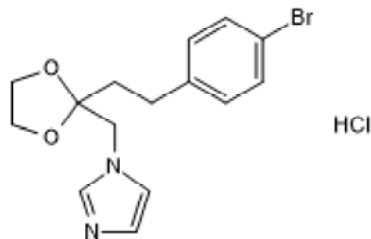
Batch Molecular Formula: C₁₅H₁₇BrN₂O₂.HCl.

Batch Molecular Weight: 373.67

Physical Appearance: Off 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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956