

Certificate of Analysis

Product Name: M62812

Catalog No.: 5705

Batch No.: 1

CAS Number: 613263-00-6

IUPAC Name: 6-(2-Aminophenoxy)-1,2-benzisothiazol-3-amine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁N₃OS.2HCl

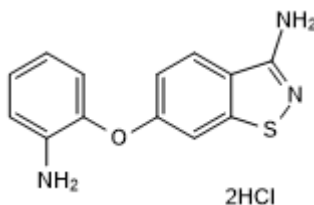
Batch Molecular Weight: 330.23

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.28	3.97	12.72
Found	47.09	3.98	12.59

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

Product Name: M62812

Catalog No.: 5705

Batch No.: 1

CAS Number: 613263-00-6

IUPAC Name: 6-(2-Aminophenoxy)-1,2-benzisothiazol-3-amine dihydrochloride

Description:

TLR4 inhibitor. Inhibits LPS-induced NF-κB activation in HEK293 cells (IC_{50} = 2.4 μg/mL). Also inhibits LPS-induced cytokine production and procoagulant effects in PBMCs and HUVECs. Prolongs survival in a mouse septic shock model.

Physical and Chemical Properties:

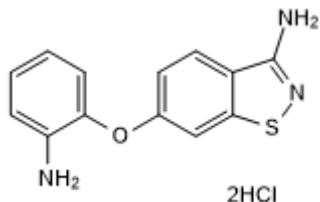
Batch Molecular Formula: C₁₃H₁₁N₃OS.2HCl

Batch Molecular Weight: 330.23

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO 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.

References:

Nakamura *et al* (2007) Toll-like receptor 4 signal transduction inhibitor, M62812, suppresses endothelial cell and leukocyte activation and prevents lethal septic shock in mice. *Eur.J.Pharmacol.* **569** 237. PMID: 17588563.

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