Certificate of Analysis

Print Date: Mar 14th 2022 www.tocris.com

Product Name: Cyclic Pifithrin-α hydrobromide

Catalog No.: 3843

Batch No.: 3

511296-88-1 CAS Number: IUPAC Name:

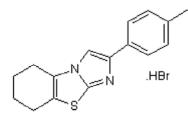
5,6,7,8-Tetrahydro-2-(4-methylphenyl)-imidazo[2,1-b]benzothiazole hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₆H₁₆N₂S.HBr.¹/₂H₂O 358.3 White solid DMSO to 100 mM Desiccate at RT



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity ¹H NMR: Mass Spectrum: Microanalysis:

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956



Storage:

Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen				
Theoretical	53.64	5.06	7.82		
Found	53.45	4.96	7.58		

TOCRIS a biotechne brand

Product Information

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CAS Number: 511296-88-1

IUPAC Name: 5,6,7,8-Tetrahydro-2-(4-methylphenyl)-imidazo[2,1-*b*]benzothiazole hydrobromide

Description:

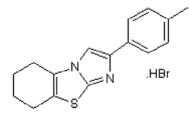
Cyclic Pifithrin- α hydrobromide is a cyclic analog of pifithrin- α (Cat. No. 1267), a small molecule inhibitor of p53. Prevents dexamethasone-induced cell death in murine thymocytes (EC₅₀ = 2.01 μ M). Sensitizes p53-deficient tumors to radiotherapy and chemotherapy; increases apoptosis in target cells when used in combination with antimicrotubule agents.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₆N₂S.HBr.½H₂O Batch Molecular Weight: 358.3 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info: 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:

Zuco and Zunino (2008) Cyclic Pifithrin- α sensitizes wild type p53 tumor cells to antimicrotubule agent-induced apoptosis. Neoplasia **10** 587. PMID: 18516295.

Barchechath *et al* (2005) Inhibitors of apoptosis in lymphocytes: synthesis and biological evaluation of compounds related to pifithrin-α. J.Med.Chem. **48** 6409. PMID: 16190767.

Pietrancosta et al (2005) Novel cyclized Pifithrin-alpha p53 inactivators: synthesis and biological studies. Bioorg.Med.Chem.Lett. 15 1561. PMID: 15745797.

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