TOCRIS a biotechne brand

Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 4995

Product Name: Phortress

CAS Number: IUPAC Name: 328087-38-3

(2S)-2,6-Diamino-N-[4-(5-fluoro-2-benzothiazolyl)-2-methylphenyl]hexanamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₂₀H₂₃FN₄OS.2HCl.H₂O 477.43 Yellow solid DMSO to 100 mM Store at -20°C

 NH_2 NH_2 O 2HCI

2. ANALYTICAL DATA

HPLC:	Shows 99% purity				
¹ H NMR:	Consistent with structure				
Mass Spectrum:	Consistent with structure				
Microanalysis:	Carbon Hydrogen Nitrogen				
	Theoretical	50.32	5.7	11.74	
	Found	50.43	5.57	11.6	

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

TOCRIS a biotechne brand

Print Date: Jan 14th 2016

Batch No.: 1

www.tocris.com

Product Name: Phortress

CAS Number: 328087-38-3

(2S)-2,6-Diamino-N-[4-(5-fluoro-2-benzothiazolyl)-2-methylphenyl]hexanamide dihydrochloride

Description:

IUPAC Name:

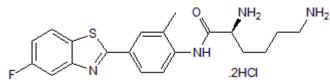
Prodrug of the antitumor agent 5F 203, which acts via binding to aryl hydrocarbon receptors. Induces expression of CYP1A1 and generates adducts in the DNA of sensitive MCF7 and IGROV-1 cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₃FN₄OS.2HCl.H₂O Batch Molecular Weight: 477.43 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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).

Catalog No.: 4995

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:

Leong et al (2003) Antitumour 2-(4-aminophenyl)benzothiazoles generate DNA adducts in sensitive tumour cells in vitro and in vivo. Br.J.Cancer 88 470. PMID: 12569393.

Trapani *et al* (2003) DNA damage and cell cycle arrest induced by 2-(4-amino-3-methylphenyl)-5-fluorobenzothiazole (5F 203, NSC 703786) is attenuated by aryl hydrocarbon receptor deficient MCF-7 cells. Br.J.Cancer **88** 599. PMID: 12592376.

Bradshaw and Westwell (2004) The development of the antitumour benzothiazole prodrug, phortress, as a clinical candidate. Curr.Med.Chem. 11 1241. PMID: 15078163.

Leong *et al* (2004) In vitro, in vivo and in silico analyses of the antitumor activity of 2(-4-amino-3-methylphenyl)-5-fluorobenzothiazoles. Mol.Cancer Ther. **3** 1565. PMID: 15634650.

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