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Print Date: Mar 25th 2016

Certificate of Analysis

www.tocris.com

Product Name: BPTES

Catalog No.: 5301 Batch No.: 1

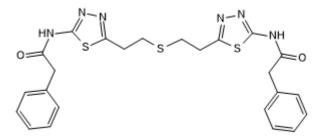
CAS Number: IUPAC Name:

314045-39-1

N,N-[Thiobis(2,1-ethanediyl-1,3,4-thiadiazole-5,2-diyl)]bisbenzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{24}H_{24}N_6O_2S_3$ 524.68 White solid DMSO to 20 mM Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 95.1% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	54.94	4.61	16.02
Found	54.66	4.61	15.95

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

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N,N-[Thiobis(2,1-ethanediyl-1,3,4-thiadiazole-5,2-diyl)]bisbenzeneacetamide

Description:

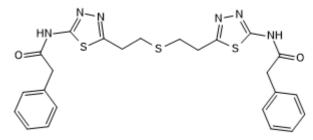
Allosteric glutaminase (GLS1) inhibitor (IC_{50} = 3.3 µM). Selective for GLS1 over GLS2 and γ-glutamyl transpeptidase. Induces cell death of P493 human lymphoma B cells in vitro and reduces tumor volume of P493 cell xenografts in mice.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{24}H_{24}N_6O_2S_3$ Batch Molecular Weight: 524.68 Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: DMSO to 20 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.: 5301

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:

DeLaBarre *et al* (2011) Full-length human glutaminase in complex with an allosteric inhibitor. Biochemistry **50** 10764. PMID: 22049910. **Le** *et al* (2012) Glucose-independent glutamine metabolism via TCA cycling for proliferation and survival in B cells. Cell.Metab. **15** 110. PMID: 22225880.

Shukla *et al* (2012) Design, synthesis, and pharmacological evaluation of bis-2-(5-phenylacetamido-1,2,4-thiadiazol-2-yl)ethyl sulfide 3 (BPTES) analogs as glutaminase inhibitors. J.Med.Chem. **55** 10551. PMID: 23151085.

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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