

Certificate of Analysis

Print Date: Jan 14th 2016

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Product Name: TTP 22 Catalog No.: 4432 Batch No.: 1

CAS Number: 329907-28-0

IUPAC Name: 3-[[5-(4-Methylphenyl)thieno[2,3-d]pyrimidin-4-yl]thio]propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{14}N_2O_2S_2$

Batch Molecular Weight: 330.42 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM

ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

Microanalysis:

Melting Point:Between 182 - 183°CHPLC:Shows 99% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 58.16 4.27 8.48 Found 58.22 4.42 8.39



Product Information

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Description:

High affinity, ATP-competitive casein kinase 2 (CK2) inhibitor (IC $_{50}$ = 0.1 μ M, K $_{i}$ = 40 nM). Displays selectivity for CK2 over JNK3, ROCK1 and MET (no inhibitory effects at 10 μ M).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{14}N_2O_2S_2$

Batch Molecular Weight: 330.42 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM ethanol 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).

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:

Golub et al (2011) Synthesis and biological evaluation of substituted (thieno[2,3-d]pyrimidin-4-ylthio)carboxylic acids as inhibitors of human protein kinase CK2. Eur.J.Med.Chem. 46 870. PMID: 21276643.