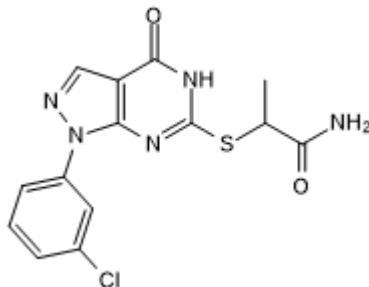


Certificate of Analysiswww.tocris.com**Product Name:** HS 38**Catalog No.:** 5768**Batch No.:** 1

CAS Number: 1030203-81-6

IUPAC Name: 2-[[1-(3-Chlorophenyl)-4,5-dihydro-4-oxo-1_H-pyrazolo[3,4-*d*]pyrimidin-6-yl]thio]propanamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₄H₁₂ClN₅O₂S**Batch Molecular Weight:** 349.8**Physical Appearance:** White solid**Solubility:** DMSO to 50 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.27 (Chloroform:Methanol [9:1])**HPLC:** Shows 99.3% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen
Theoretical 48.07 3.46 20.02
Found 48.16 3.43 19.76

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 Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

www.tocris.com
Product Name: HS 38

Catalog No.: 5768

Batch No.: 1

CAS Number: 1030203-81-6

IUPAC Name: 2-[[1-(3-Chlorophenyl)-4,5-dihydro-4-oxo-1^H-pyrazolo[3,4-d]pyrimidin-6-yl]thio]propanamide

Description:

ATP-competitive inhibitor of DAPK (IC_{50} = 200 nM) and ZIPK (K_d = 280 nM). Also inhibits PIM3 kinase (IC_{50} = 200 nM) but exhibits no significant effect on Src or Abl kinases. Reduces phosphorylation of regulatory myosin light chain and myosin light chain phosphatase in mouse aortic and rabbit ileal tissues.

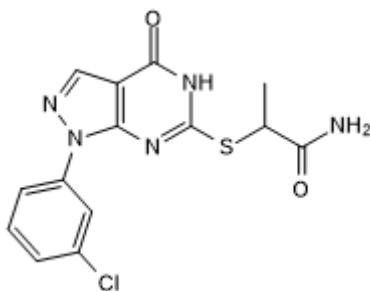
Physical and Chemical Properties:

 Batch Molecular Formula: $C_{14}H_{12}ClN_5O_2S$

Batch Molecular Weight: 349.8

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

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:

MacDonald et al (2016) A Small Molecule Pyrazolo[3,4-d]Pyrimidinone Inhibitor of Zipper-Interacting Protein Kinase Suppresses Calcium Sensitization of Vascular Smooth Muscle. *Mol.Pharmacol.* **89** 105. PMID: 26464323.

Carlson et al (2013) Fluorescence linked enzyme chemoproteomic strategy for discovery of a potent and selective DAPK1 and ZIPK inhibitor. *ACS.Chem.Biol.* **8** 2715. PMID: 24070067.

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

bio-technne.com

 info@bio-technne.com
 techsupport@bio-technne.com

North America

Tel: (800) 343 7475

China

 info.cn@bio-technne.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