

Certificate of Analysis

Print Date: Feb 21st 2022

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Product Name: FAK Inhibitor 14 Catalog No.: 3414 Batch No.: 2

CAS Number: 4506-66-5 EC Number: 224-822-6

IUPAC Name: 1,2,4,5-Benzenetetramine tetrahydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{10}N_4.4HCI.\frac{1}{2}H_2O$

Batch Molecular Weight: 293.02 **Physical Appearance:** Grey solid

Solubility: water to 50 mM

DMSO to 75 mM ethanol to 5 mM

Storage: Desiccate at RT

Batch Molecular Structure:

H₂N NH₂

.4HCI

2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Theoretical 24.59 5.16 19.12 Found 24.47 4.87 18.87

Carbon Hydrogen Nitrogen



Product Information

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Description:

FAK Inhibitor 14 is a selective focal adhesion kinase (FAK) inhibitor that displays no significant activity at a range of other kinases including EGFR, PDGFR and IGF-RI. FAK Inhibitor 14 prevents FAK autophosphorylation at Y397 (IC $_{50}$ = 1 μ M), promotes cell detachment and inhibits cell adhesion in vitro. FAK Inhibitor 14 exhibits antiproliferative activity in a variety of human tumor cell lines in vitro and in breast cancer cells in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₆H₁₀N₄.4HCl.½H₂O

Batch Molecular Weight: 293.02 Physical Appearance: Grey solid

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM DMSO to 75 mM ethanol to 5 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:

Hochwald *et al* (2009) A novel small molecule inhibitor of FAK decreases growth of human pancreatic cancer. Cell Cycle **8** 2435. PMID: 19571674.

Golubovskaya *et al* (2008) A small molecule inhibitor, 1,2,4,5-benzenetetraamine tetrahydrochloride, targeting the Y397 site of focal adhesion kinase decreases tumour growth. J.Med.Chem. *51* 7405. PMID: 18989950.