

Product Name: FAK Inhibitor 14

Catalog No.: 3414

Batch No.: 3

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: C₆H₁₀N₄.4HCl.½H₂O

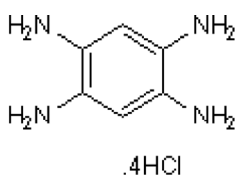
Batch Molecular Weight: 293.02

Physical Appearance: Grey solid

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

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	24.59	5.16	19.12	48.4
Found	24.29	4.75	18.74	49.15

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 World

www.tocris.com/distributors

Tel: +1 612 379 2956

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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 (IC₅₀ = 1 μM), 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.

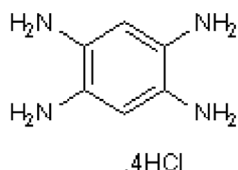
Physical and Chemical Properties:

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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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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