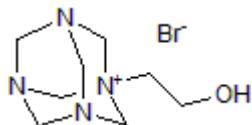


Certificate of Analysiswww.tocris.com**Product Name:** Y 11**Catalog No.:** 4498**Batch No.:** 1**CAS Number:** 1086639-59-9**IUPAC Name:** 1-(2-Hydroxyethyl)-3,5,7-triaza-1-azanetricyclo[3.3.1.1^{3,7}]decane bromide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₈H₁₇N₄OBr**Batch Molecular Weight:** 265.15**Physical Appearance:** White solid**Solubility:** water to 100 mM
DMSO to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****Melting Point:** Between 140 - 143°C**¹H NMR:** Consistent with structure**¹³C NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 36.24 6.46 21.13

Found 36.29 6.46 21.09

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

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Product Information

Product Name: Y 11**Catalog No.:** 4498**Batch No.:** 1

CAS Number: 1086639-59-9

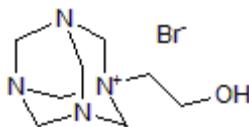
IUPAC Name: 1-(2-Hydroxyethyl)-3,5,7-triaza-1-azaniatricyclo[3.3.1.1^{3,7}]decane bromide**Description:**

Potent inhibitor of focal adhesion kinase (FAK); prevents FAK autophosphorylation at the Y397 site ($IC_{50} \sim 50$ nM in an in vitro kinase assay). Displays selectivity for FAK over a panel of other kinases (concentration used in assay = 1 μ M). Decreases cell viability in a number of cancer cell lines; blocks colony formation in SW620 and BT474 cell lines.

Physical and Chemical Properties:Batch Molecular Formula: $C_8H_{17}N_4OBr$

Batch Molecular Weight: 265.15

Physical Appearance: White solid

Batch Molecular Structure:**Storage:** Store at -20°C**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 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:

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

Golubovskaya et al (2012) A small molecule focal adhesion kinase (FAK) inhibitor, targeting Y397 site: 1-(2-hydroxyethyl)-3, 5, 7-triaza-1-azaniatricyclo [3.3.1.1^{3,7}]decane; bromide effectively inhibits FAK autophosphorylation activity and decreases cancer cell viability, clonogenicity and tumor growth *in vivo*. *Carcinogenesis*. PMID: 22402131.

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