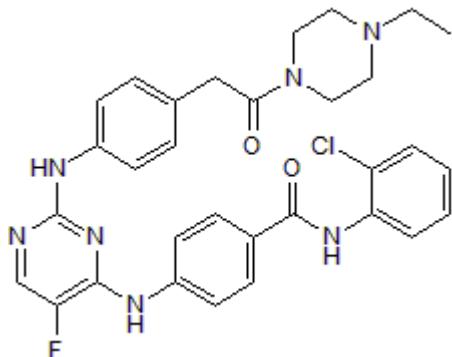


Certificate of Analysiswww.tocris.com**Product Name:** TC-S 7010**Catalog No.:** 5286**Batch No.:** 1**CAS Number:** 1158838-45-9**IUPAC Name:** *N*-(2-Chlorophenyl)-4-[[2-[[4-[(4-ethyl-1-piperazinyl)-2-oxoethyl]phenyl]amino]-5-fluoro-4-pyrimidinyl]amino]-benzamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₃₁H₃₁ClFN₇O₂**Batch Molecular Weight:** 588.07**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 100% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 63.31 5.31 16.67

Found 62.94 5.45 16.57

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 Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: TC-S 7010**Catalog No.:** 5286**Batch No.:** 1

CAS Number: 1158838-45-9

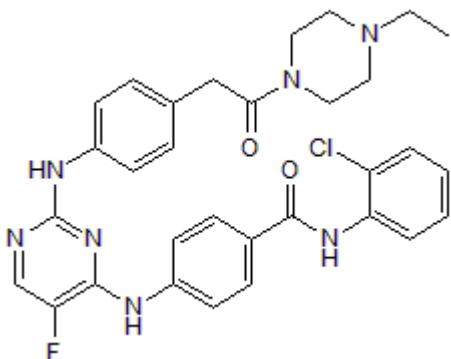
IUPAC Name: *N*-(2-Chlorophenyl)-4-[[2-[[4-[2-(4-ethyl-1-piperazinyl)-2-oxoethyl]phenyl]amino]-5-fluoro-4-pyrimidinyl]amino]-benzamide**Description:**

Potent and selective inhibitor of Aurora kinase A ($IC_{50} = 3.4$ nM); exhibits 1000-fold selectivity for Aurora kinase A over Aurora kinase B. Displays antiproliferative activity in HCT116 and HT29 cells (IC_{50} values are 0.19 and 2.9 μ M respectively).

Physical and Chemical Properties:Batch Molecular Formula: $C_{31}H_{31}ClFN_7O_2$

Batch Molecular Weight: 588.07

Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at +4°C**Solubility & Usage Info:**

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:

Aliagas-Martin *et al* (2009) A class of 2,4-bisanilinopyrimidine Aurora A inhibitors with unusually high selectivity against Aurora B. *J.Med.Chem.* **52** 3300. PMID: 19402633.

Yuan *et al* (2012) Overcoming CML acquired resistance by specific inhibition of Aurora A kinase in the KCL-22 cell model. *Carcinogenesis* **33** 285. PMID: 22116466.

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bio-technne.cominfo@bio-technne.com
techsupport@bio-technne.com**North America**

Tel: (800) 343 7475

Chinainfo.cn@bio-technne.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