

**Product Name:** A 419259 trihydrochloride

**Catalog No.:** 3914

**Batch No.:** 3

CAS Number: 1435934-25-0

IUPAC Name: 7-[*trans*-4-(4-Methyl-1-piperazinyl)cyclohexyl]-5-(4-phenoxyphenyl)-7*H*-Pyrrolo[2,3-*d*]pyrimidin-4-amine trihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>29</sub>H<sub>34</sub>N<sub>6</sub>O.3HCl.2¾H<sub>2</sub>O

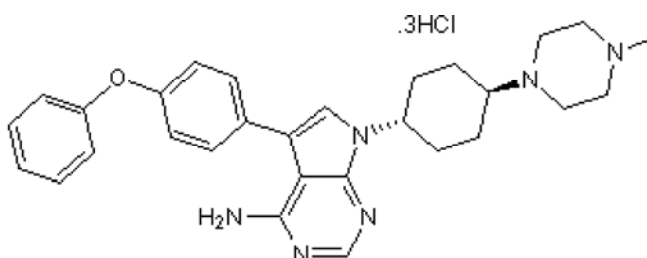
**Batch Molecular Weight:** 641.55

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 20 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	54.29	6.68	13.1	16.58
Found	54.06	6.45	13.26	16.78

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

**Product Name:** A 419259 trihydrochloride

**Catalog No.:** 3914

**Batch No.:** 3

CAS Number: 1435934-25-0

IUPAC Name: 7-[*trans*-4-(4-Methyl-1-piperazinyl)cyclohexyl]-5-(4-phenoxyphenyl)-7*H*-Pyrrolo[2,3-*d*]pyrimidin-4-amine trihydrochloride

**Description:**

Potent Hck inhibitor (IC<sub>50</sub> = 0.43 nM). Also inhibits other Src family kinases (SFKs). Suppresses proliferation and induces apoptosis in CML cell lines including CD34<sup>+</sup>. Also inhibits acute myeloid leukemia (AML) stem cell proliferation *in vitro* and *in vivo*.

**Physical and Chemical Properties:**

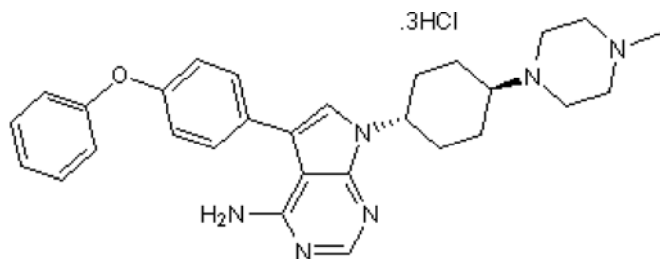
Batch Molecular Formula: C<sub>29</sub>H<sub>34</sub>N<sub>6</sub>O.3HCl.2¾H<sub>2</sub>O

Batch Molecular Weight: 641.55

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 20 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:**

**Saito *et al*** (2013) A pyrrolo-pyrimidine derivative targets human primary AML stem cells *in vivo*. *Sci.Transl.Med.* **5**. PMID: 23596204.

**Pene-Dumitrescu *et al*** (2008) An inhibitor-resistant mutant of Hck protects CML cells against the antiproliferative and apoptotic effects of the broad spectrum Src family kinase inhibitor A-419259. *Oncogene* **27** 7055. PMID: 18794796.

**Wilson *et al*** (2002) Selective pyrrolo-pyrimidine inhibitors reveal a necessary role for Src family kinases in Bcr-Abl signal transduction and oncogenesis. *Oncogene* **21** 8075. PMID: 12444544.

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