

**Product Name:** TL 0259

**Catalog No.:** 6981

**Batch No.:** 1

**IUPAC Name:** 3-[(6,7-Dimethoxy-4-quinazolinyloxy)-N-[4-[(4-ethyl-1-piperazinyl)methyl]-3-(trifluoromethyl)phenyl]-4-methylbenzamide dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>32</sub>H<sub>34</sub>F<sub>3</sub>N<sub>5</sub>O<sub>4</sub>.2HCl.2H<sub>2</sub>O

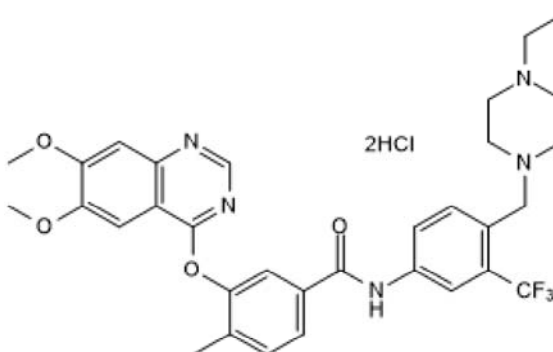
**Batch Molecular Weight:** 718.59

**Physical Appearance:** White solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	52.16	5.54	9.5	12.03
Found	51.81	5.52	9.08	12.12

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**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:**

Selective and highly potent Fgr and Lyn inhibitor (IC<sub>50</sub> values are 0.03 and 0.1 nM, respectively). Exhibits selectivity for Fgr and Lyn over other Src family kinases and other nonreceptor and receptor tyrosine kinases. Suppresses proliferation of acute myelogenous leukemia (AML) cell lines *in vitro*. Eliminates leukemic cells from spleen and bone of mice bearing AML xenografts. Orally bioavailable.

**Physical and Chemical Properties:**

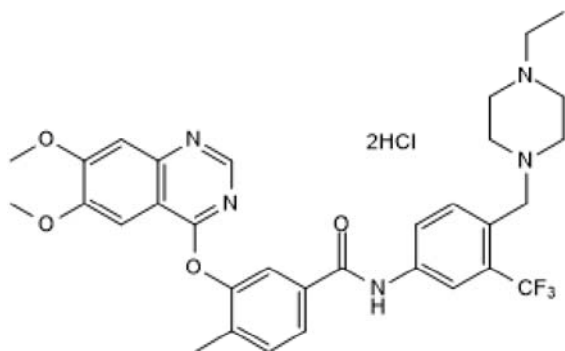
Batch Molecular Formula: C<sub>32</sub>H<sub>34</sub>F<sub>3</sub>N<sub>5</sub>O<sub>4</sub>.2HCl.2H<sub>2</sub>O

Batch Molecular Weight: 718.59

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Weir *et al* (2018) Selective inhibition of the myeloid Src-family kinase Fgr potently suppresses AML cell growth *in vitro* and *in vivo*. ACS Chem.Biol. **13** 1551. PMID: 29763550.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 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.

**Licensing Information:**

Sold under license from Dana-Farber Cancer Institute

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