

Product Name: TL 0259

Catalog No.: 6981

Batch No.: 1

CAS Number: 2415263-06-6

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: C₃₂H₃₄F₃N₅O₄·2HCl·2H₂O

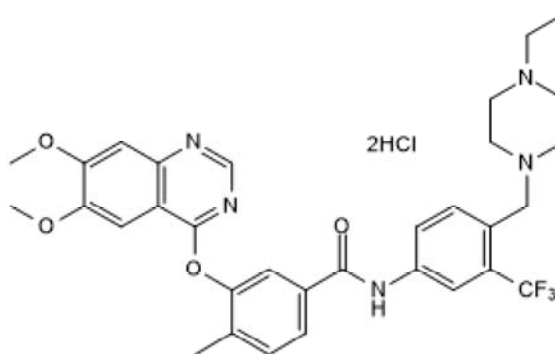
Batch Molecular Weight: 718.59

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

¹H 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

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:

TL 0259 is a selective and highly potent Fgr and Lyn inhibitor (IC₅₀ 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:

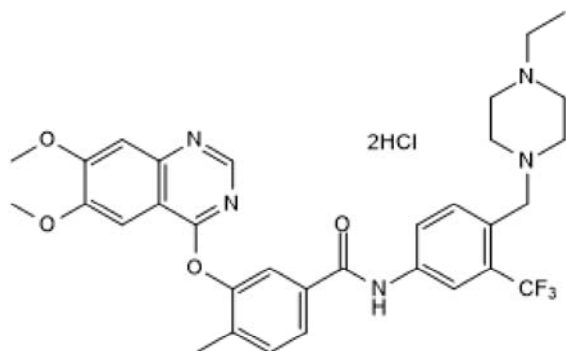
Batch Molecular Formula: C₃₂H₃₄F₃N₅O₄.2HCl.2H₂O

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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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

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Tel:+1 612 379 2956