

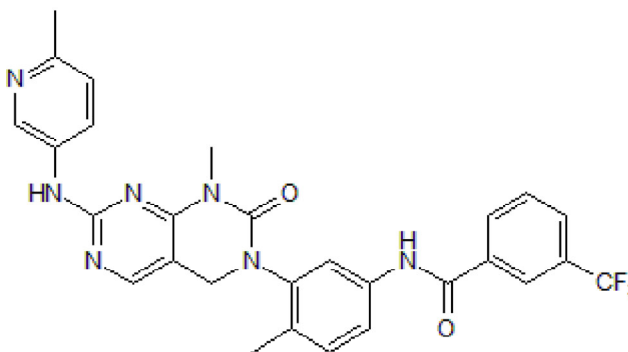
Certificate of Analysis

www.tocris.com

Product Name:	GNF 7	Catalog No.:	5607	Batch No.:	3
CAS Number:	839706-07-9				
IUPAC Name:	<i>N</i> -[3-[1,4-Dihydro-1-methyl-7-[(6-methyl-3-pyridinyl)amino]-2-oxopyrimido[4,5- <i>d</i>]pyrimidin-3(2 <i>H</i>)-yl]-4-methylphenyl]-3-(trifluoromethyl)benzamide				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₂₄ F ₃ N ₇ O ₂ ·¾H ₂ O
Batch Molecular Weight:	561.04
Physical Appearance:	White solid
Solubility:	DMSO to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.5% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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Description:

GNF 7 is a potent Bcr-Abl inhibitor (IC₅₀ values are 61 and 133 nM for T315I and wild-type Bcr-Abl, respectively), inhibiting a range of clinically relevant Bcr-Abl mutants such as T315I, G250E, E255V, F317L and M351T. GNF 7 is also a Ras signaling inhibitor as well as inhibiting Ack1 and germinal center kinase (GCK). GNF 7 induces cell cycle arrest and apoptosis in leukemia cells harboring NRAS mutations, and shows growth inhibitory activity in human colon cancer cells. It prolongs survival in a leukemia cell xenotransplantation model in mice and is orally bioavailable.

Physical and Chemical Properties:

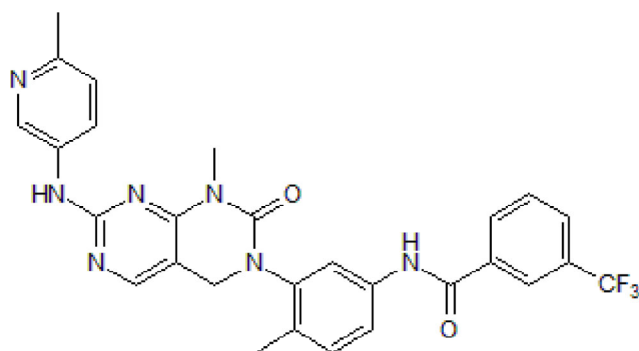
Batch Molecular Formula: C₂₈H₂₄F₃N₇O₂·¾H₂O

Batch Molecular Weight: 561.04

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Nonami et al (2015) Identification of novel therapeutic targets in acute leukemias with NRAS mutations using a pharmacologic approach. *Blood* **125** 3133. PMID: 25833960.

Choi et al (2010) A type-II kinase inhibitor capable of inhibiting the T315I "gatekeeper" mutant of Bcr-Abl. *J.Med.Chem* **53** 5439. PMID: 20604564.

Storage: Store at -20°C

Solubility & Usage Info:

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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