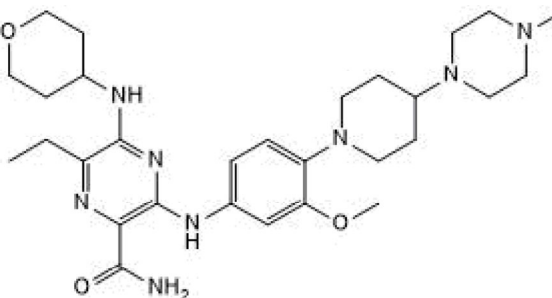


Product Name: Gilteritinib **Catalog No.:** 7891 **Batch No.:** 1
CAS Number: 1254053-43-4
IUPAC Name: 6-Ethyl-3-[[3-methoxy-4-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]phenyl]amino]-5-[(tetrahydro-2H-pyran-4-yl)amino]-2-pyrazinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₄₄N₈O₃·½H₂O
Batch Molecular Weight: 561.72
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.01	8.08	19.95
Found	61.29	7.9	19.62

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

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Description:

Gilteritinib is a potent Fms-like tyrosine kinase 3 (FLT3) and AXL inhibitor (IC₅₀ = 0.29 nM and 0.73 nM, for FLT3 and AXL, respectively). In vivo, Gilteritinib reduces tumor and improves survival in xenograft and intra-bone marrow transplantation models of FLT3 mutated acute myeloid leukemia. Gilteritinib is orally bioavailable.

Physical and Chemical Properties:

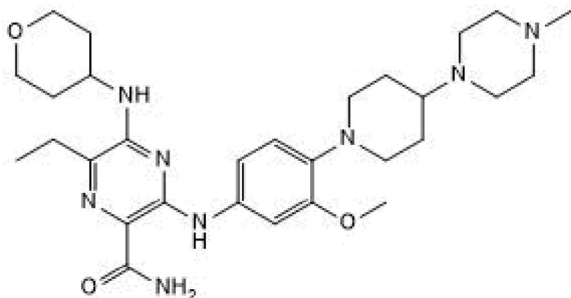
Batch Molecular Formula: C₂₉H₄₄N₈O₃·½H₂O

Batch Molecular Weight: 561.72

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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.

References:

Mori et al (2017) Gilteritinib, a FLT3/AXL inhibitor, shows antileukemic activity in mouse models of FLT3 mutated acute myeloid leukemia. *Invest.New Drugs* **35** 556. PMID: 28516360.

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