

Product Name: CHMFL-FLT3-122

Catalog No.: 5800

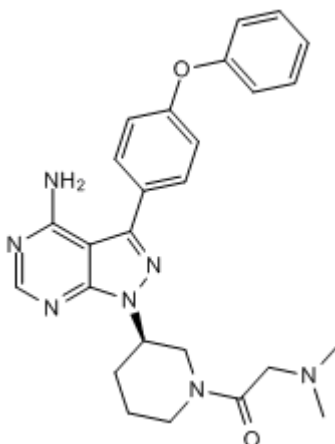
Batch No.: 1

CAS Number: 1839150-56-9

IUPAC Name: 1-[(3*R*)-3-[4-Amino-3-(4-phenoxyphenyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-1-yl]-1-piperidinyl]-2-(dimethylamino)-ethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₆ H ₂₉ N ₇ O ₂
Batch Molecular Weight:	471.55
Physical Appearance:	White solid
Solubility:	1eq. HCl to 100 mM DMSO to 100 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.4 (Chloroform:Methanol:Ammonia soln. [85:15:0.1])
HPLC:	Shows 98.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	66.22	6.2	20.79
Found	66.42	6.18	20.62

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

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Description:

Potent and selective FLT3 inhibitor ($IC_{50} = 40$ nM). Exhibits >10-fold and 170-fold selectivity for FLT3 over BTK kinase and c-KIT kinase, respectively in vitro. Induces apoptosis by arresting cell cycle in G₀/G₁ phase in vitro. Suppresses tumor growth in an AML xenograft model. Modestly orally bioavailable.

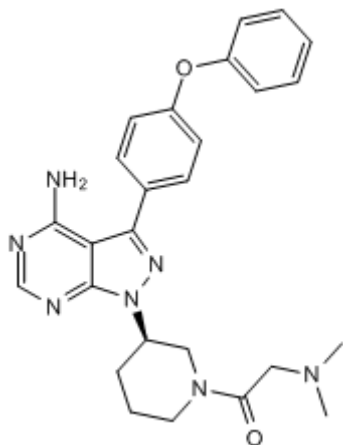
Physical and Chemical Properties:

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Batch Molecular Weight: 471.55

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 100 mM

DMSO to 100 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:

Li *et al* (2015) Discovery of (*R*)-1-(3-(4-Amino-3-(4-phenoxyphenyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-1-yl)piperidin-1-yl)-2-(dimethylamino)ethanone (CHMFL-FLT3-122) as a potent and orally available FLT3 kinase inhibitor for FLT3-ITD positive acute myeloid leukemia. *J.Med.Chem.* **58** 9625. PMID: 26630553.

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