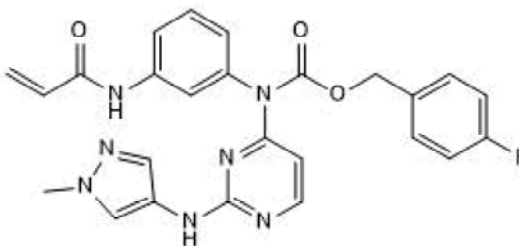


Product Name: JBJ-03-142-02 **Catalog No.:** 6962 **Batch No.:** 1
CAS Number: 2068806-31-3
IUPAC Name: (4-Fluorophenyl)methyl N-[2-[(1-methyl-1H-pyrazol-4-yl)amino]-4-pyrimidinyl]-N-[3-[(1-oxo-2-propen-1-yl)amino]phenyl]carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₂FN₇O₃
Batch Molecular Weight: 487.5
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
Theoretical	61.6	4.55	20.11
Found	61.27	4.57	20.01

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

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Description:

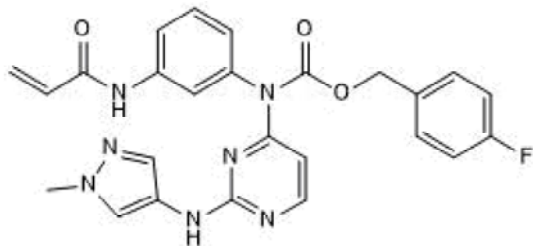
Highly potent epidermal growth factor receptor (EGFR) and ErbB2 (human epidermal growth factor receptor; HER2) inhibitor. Inhibits wild type and tumorigenic mutated receptors (exon 20 insertion; Ex20Ins). Antiproliferative in vitro (IC₅₀ values are 7.6, 30 - 95, 3.8 and 19 - 31 nM for Ba/F3 cells expressing wild type EGFR, EGFR with Ex20Ins mutation, wild type HER2 and HER2 with Ex20Ins mutation, respectively). Also inhibits other common EGFR mutants. Antiproliferative in patient-derived lung cancer cell lines.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₅H₂₂FN₇O₃
 Batch Molecular Weight: 487.5
 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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

References:

Jang *et al* (2018) Discovery of a highly potent and broadly effective epidermal growth factor receptor and HER2 exon 20 insertion mutant inhibitor. *Angew.Chem.Int.Ed.Engl.* **57** 11629. PMID: 29978938.

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