

**Product Name:** PF 06465469

**Catalog No.:** 4710

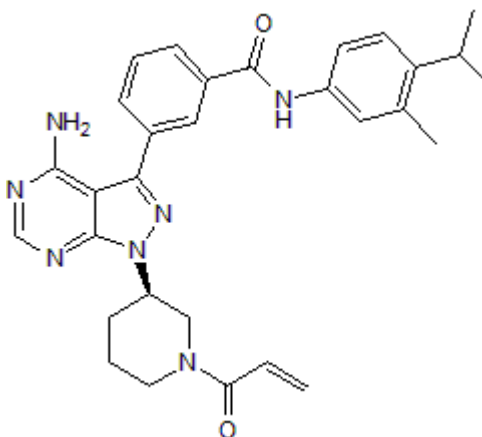
**Batch No.:** 1

CAS Number: 1407966-77-1

IUPAC Name: (*R*)-3-(1-(1-Acryloylpiperidin-3-yl)-4-amino-1*H*-pyrazolo[3,4-*d*]pyrimidin-3-yl)-*N*-(3-methyl-4-(1-methylethyl))benzamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>30</sub> H <sub>33</sub> N <sub>7</sub> O <sub>2</sub> · <sup>3</sup> / <sub>4</sub> H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	537.14
<b>Physical Appearance:</b>	Off-white solid
<b>Solubility:</b>	DMSO to 5 mM with gentle warming
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 95.5% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	67.08	6.47	18.25
Found	67.15	6.38	17.96

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**Description:**

Potent inhibitor of interleukin-2 inducible T cell kinase (ITK) (IC<sub>50</sub> = 2 nM). Also exhibits inhibitory activity against Bruton's tyrosine kinase (BTK) (IC<sub>50</sub> = 2 nM). Displays nanomolar potencies in a cell-based IP1 assay and human whole blood assay (IC<sub>50</sub> values are 31 and 48 nM respectively).

**Physical and Chemical Properties:**

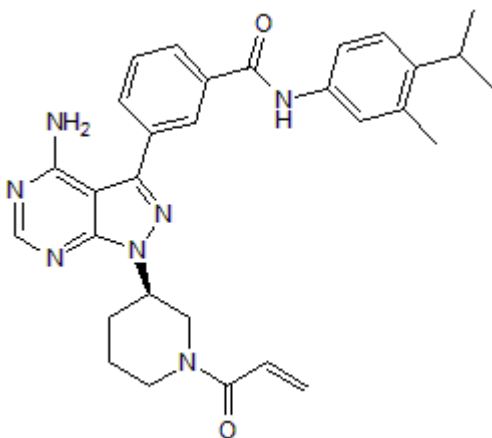
Batch Molecular Formula: C<sub>30</sub>H<sub>33</sub>N<sub>7</sub>O<sub>2</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 537.14

Physical Appearance: Off-white solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 5 mM with gentle warming

**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:**

Zapf *et al* (2012) Covalent inhibitors of interleukin-2 inducible T cell kinase (Itk) with nanomolar potency in a whole-blood assay. *J.Med.Chem.* **55** 10047. PMID: 23098091.

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