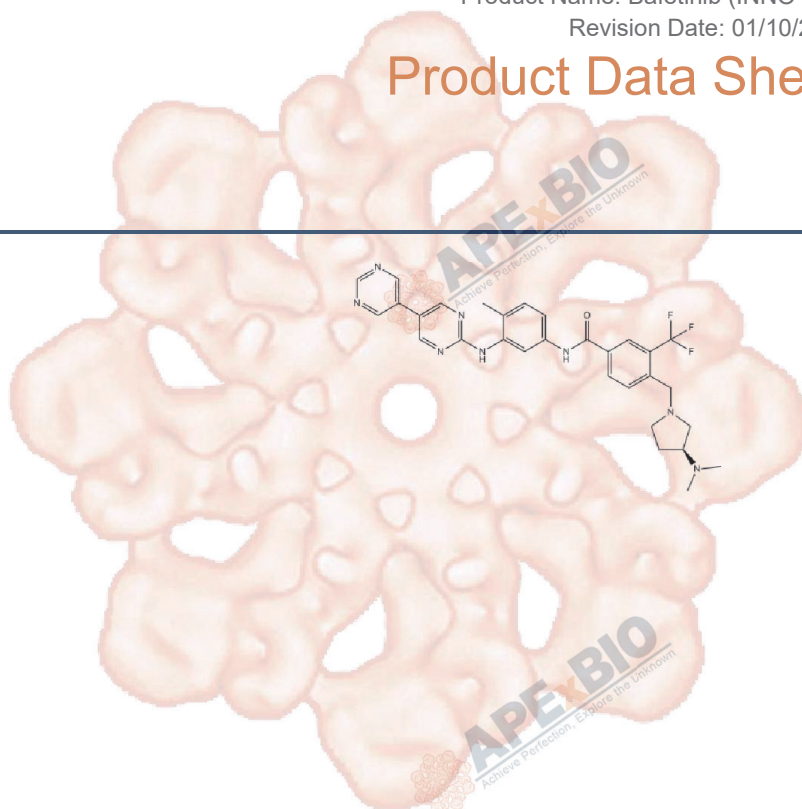


# Product Data Sheet

## Bafetinib (INNO-406)

<b>Cat. No.:</b>	B1011
<b>CAS No.:</b>	887650-05-7
<b>Formula:</b>	C30H31F3N8O
<b>M.Wt:</b>	576.62
<b>Synonyms:</b>	
<b>Target:</b>	TGF- $\beta$ / Smad Signaling
<b>Pathway:</b>	Bcr-Abl
<b>Storage:</b>	Store at -20° C



### Solvent & Solubility

$\geq 57.7$  mg/mL in DMSO; insoluble in EtOH; insoluble in H<sub>2</sub>O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	1.7342 mL	8.6712 mL	17.3424 mL
		5 mM	0.3468 mL	1.7342 mL	3.4685 mL
		10 mM	0.1734 mL	0.8671 mL	1.7342 mL

Please refer to the solubility information to select the appropriate solvent

### Biological Activity

Shortsummary	Bcr-Abl/Lyn tyrosine kinase inhibitor	
IC <sub>50</sub> & Target	5.8 nM (Abl), 19 nM (Lyn)	
In Vitro	<b>Cell Viability Assay</b>	
	Cell Line:	K562, BaF3/wt and KU812 cell lines
	Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
	Reacting conditions:	0-10 $\mu$ M for 3 days

	Applications:	Bafetinib could suppress the growth of the Bcr-Abl–positive cell lines K562, KU812, and BaF3/wt.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Bcr-Abl–positive KU812 mouse model
	Dosage form:	0.2 mg/kg/d and 20 mg/kg/d orally twice a day for 26 consecutive days
	Applications:	Bafetinib suppressed the growth of Bcr-Abl–bearing tumors (KU812) and markedly extends the survival of mice bearing such tumors.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

- Gabriella R. Sterne. "Signaling mechanisms of Down syndrome cell adhesion molecule in presynaptic arbor size control." University of Michigan.2016.
- Sterne, Gabriella R., Jung Hwan Kim, and Bing Ye. "Dysregulated Dscam levels act through Abelson tyrosine kinase to enlarge presynaptic arbors." eLife 4 (2015): e05196.PMID:25988807

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Kimura S, Naito H, Segawa H, et al. NS-187, a potent and selective dual Bcr-Abl/Lyn tyrosine kinase inhibitor, is a novel agent for imatinib-resistant leukemia. Blood, 2005, 106(12): 3948-3954.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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