

## **Data Sheet**

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 Product Name
 : Bafetinib

 Cat. No.
 : PC-45880

 CAS No.
 : 859212-16-1

 Molecular Formula
 : C<sub>30</sub>H<sub>31</sub>F<sub>3</sub>N<sub>8</sub>O

 Molecular Weight
 : 576.6154

 Target
 : Bcr-Abl

**Solubility** : DMSO: ≥ 42 mg/mL

## **Biological Activity**

Bafetinib (INNO-406, NS-187) is a potent and selective dual **Abl/Lyn** tyrosine kinase inhibitor with IC50 of 5.9 nM and 198 nM, respectively.

Bafetinib is more potent and specific against Bcr-Abl than imatinib, also inhibits the phosphorylation of CrkL and ERK in BaF3/E255K cells.

Bafetinib inhibits the phosphorylation of Bcr-Abl harboring the M244V, G250E, Q252H, Y253F, E255K, E255V, F317L, M351T, E355G, F359V, H396P, or F486S mutations, but does not inhibit the phosphorylation of the T315I mutant. Bafetinib prolonges the survival of mice injected with leukemic cells expressing all mutated Bcr-Abl.

## References

Kimura S, et al. *Blood.* 2005 Dec 1;106(12):3948-54. Naito H, et al. *Leuk Res.* 2006 Nov;30(11):1443-6. Yokota A, et al. *Blood.* 2007 Jan 1;109(1):306-14.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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