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# Data Sheet

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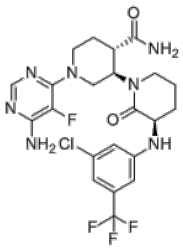
|---|---|---|
| **Product Name** | : | Vecabrutinib |
| **Cat. No.** | : | PC-50001 |
| **CAS No.** | : | 1510829-06-7 |
| **Molecular Formula** | : | $C_{22}H_{24}ClF_4N_7O_2$ |
| **Molecular Weight** | : | 529.925 |
| **Target** | : | BTK |
| **Solubility** | : | 10 mM in DMSO |



1. Thompson PA, et al. ***Expert Opin Investig Drugs.*** 2017 Nov 15:1-12.

## Biological Activity

Vecabrutinib (SNS-062) is a potent, reversible, non-covalent **BTK** inhibitor with IC50 of 2.9 and 4.4 nM for WT BTK and C481S BTK, respectively.
Vecabrutinib (SNS-062) binds to Tec kinase family members BTK (Kd=0.3 nM) and ITK (Kd=2.2 nM), but not bind EGFR, active in vitro in cells with the C481S mutation.
Vecabrutinib (SNS-062) inhibits pBTK in human whole blood with IC50 of 50 nM, demonstrates favorable pharmacokinetic properties.
Vecabrutinib (SNS-062) shows potential for overcoming the ibrutinib resistance due to C481S mutantion in BTK.

## References

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