

BLZ-945

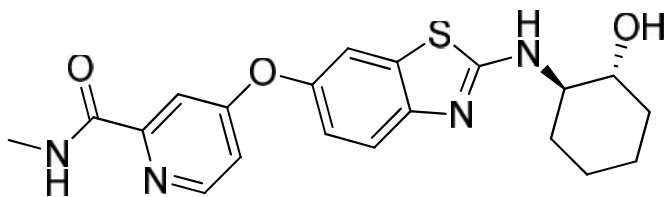
SYN-1197

4-((2-(((1R,2R)-2-hydroxycyclohexyl)amino)benzo[d]thiazol-6-yl)oxy)-N-methylpicolinamide

CAS Registry No.: 953769-46-5

Smiles String:

O=C(NC)C1=CC(OC2=CC=C(N=C(N[C@@H]3CCCC[C@H]3O)S4)C4=C2)=CC=N1



Molecular Weight: 398.48

Molecular Formula: C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>S

Lot Number: Refer to vial

<sup>1</sup>H-NMR: Available on request

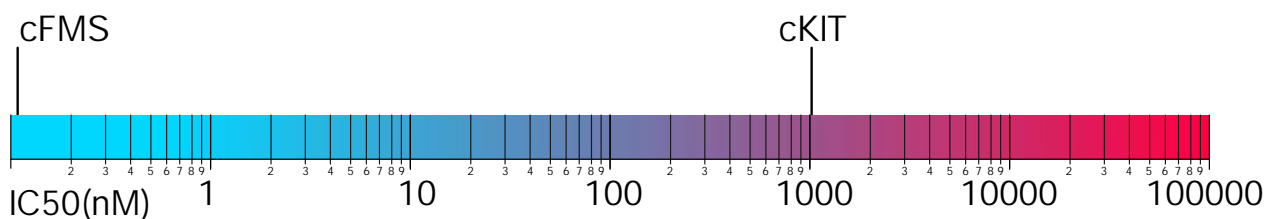
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

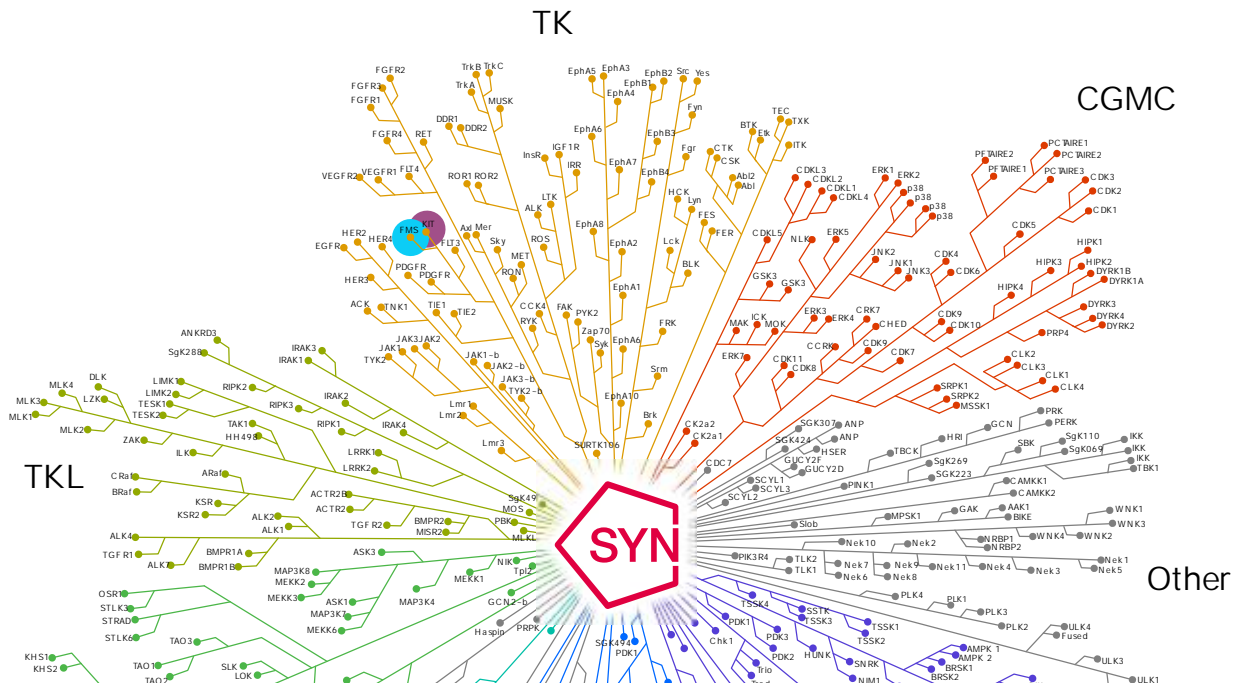
## Description:

BLZ945 is an orally active, potent and selective CSF-1R inhibitor, which inhibits CSF-1R activity with an IC<sub>50</sub> of 1nM and is more than 1000-fold selective against its closest receptor tyrosine kinase homologs c-KIT and Platelet-derived Growth Factor Receptor beta (PDGFRb) as well as more than 200 additional kinases, confirming the selectivity of the compound.

## Biological Activity



# Kinome Mapping



## Shipping and Storage Temperature

Shipping:  
Ambient

Storage:  
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

## Solubility

10 mM in DMSO

## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3985	3.9850	7.9700	19.9250

---

## References

1. Pyonteck SM, Akkari L, Schuhmacher AJ, Bowman RL, Sevenich L, Quail DF, Olson OC, Quick ML, Huse JT, Teijeiro V, Setty M, Leslie CS, Oei Y, Pedraza A, Zhang J, Brennan CW, Sutton JC, Holland EC, Daniel D, Joyce JA. CSF-1R inhibition alters macrophage polarization and blocks glioma progression. *Nat Med*. 2013 Oct;19(10):1264-72. doi: 10.1038/nm.3337. Epub 2013 Sep 22. PubMed PMID: 24056773; PubMed Central PMCID: PMC3840724.

---

## Ordering Information

To order more of this or any other SYNkinase compound, go to [synkinase.com](http://synkinase.com), Call us Toll Free (US Only) at 1- 877-854-6273 or email [orders@synkinase.com](mailto:orders@synkinase.com).

Product Datasheet (Rev. 1.1)