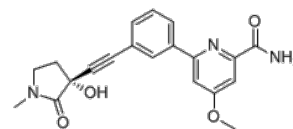


**Product Name** : NIK SMI1  
**Cat. No.** : PC-62514  
**CAS No.** : 1660114-31-7  
**Molecular Formula** : C<sub>20</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>  
**Molecular Weight** : 365.389  
**Target** : NF-κB inducing Kinase (NIK)  
**Solubility** : 10 mM in DMSO



### Biological Activity

NIK SMI1 is a potent, selective small molecule inhibitor of **NF-κB inducing kinase (NIK)** with K<sub>i</sub> of 230±170 pM. NIK SMI1 only inhibits 3 out of 222 off-target kinases (KHS1, LRRK2, and PKD1) with >75% inhibition at 1 μM. NIK SMI1 potently inhibits anti-LTβR-induced nuclear p52 levels in anti-LTβR-stimulated HeLa cells, with no effect on canonical signaling. NIK SMI1 inhibits BAFF and CD40 signaling, suppresses immune responses in vivo. NIK SMI1 suppresses disease biomarkers and improves survival and renal function in NZB/W F1 mice.

### References

Brightbill HD, et al. *Nat Commun.* 2018 Jan 12;9(1):179.

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

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