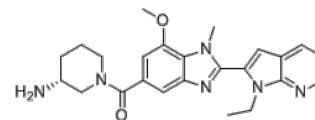


**Product Name** : GSK199  
**Cat. No.** : PC-62216  
**CAS No.** : 1549810-81-2  
**Molecular Formula** : C<sub>24</sub>H<sub>28</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 432.528  
**Target** : Protein Arginine Deiminase (PAD)  
**Solubility** : 10 mM in DMSO



### Biological Activity

GSK199 is a potent, highly selective and reversible protein arginine deiminase **PAD4** inhibitor with IC<sub>50</sub> of 250 nM in FP binding assay (0.2 mM Ca), 200 nM in PAD4 NH<sub>3</sub> release inhibition assay.

GSK199 shows high specificity for PAD4 over PAD1/2/3/6.

GSK199 affects cellular citrullination and mimic the deficiency in NET production in mice.

GSK199 significantly decreases in complement C3 deposition in both synovium and cartilage in mice.

### References

Lewis HD, et al. *Nat Chem Biol.* 2015 Mar;11(3):189-91.

Willis VC, et al. *Clin Exp Immunol.* 2017 May;188(2):263-274.

Slade DJ, et al. *ACS Chem Biol.* 2015 Apr 17;10(4):1043-53.

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

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