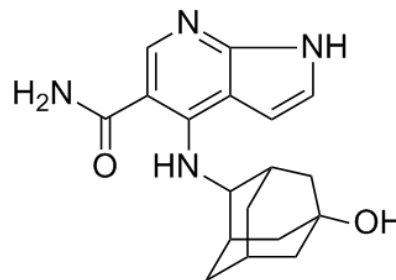


**Product Name** : Peficitinib  
**Cat. No.** : PC-45652  
**CAS No.** : 944118-01-8  
**Molecular Formula** : C<sub>18</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 326.3929  
**Target** : JAK  
**Solubility** : DMSO: ≥ 60 mg/mL



### Biological Activity

Peficitinib (ASP015K, JNJ-54781532) is a potent **JAK** inhibitor with IC<sub>50</sub>s of 3.9 and 0.7 nM for JAK1 and JAK3 respectively. Peficitinib inhibits IL-2-dependent T cell proliferation in vitro and STAT5 phosphorylation in vitro and ex vivo. Peficitinib dose-dependently suppresses bone destruction and paw swelling in an adjuvant-induced arthritis model in rats; orally bioactive.

### References

Oda K, et al. *Xenobiotica*. 2015;45(6):488-94.

Takeuchi T, et al. *Ann Rheum Dis*. 2016 Jun;75(6):1057-64.

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

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