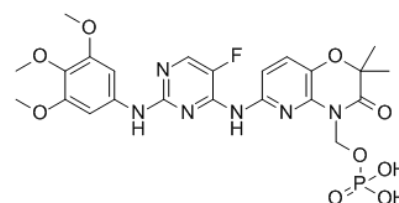


**Product Name** : Fostamatinib  
**Cat. No.** : PC-43349  
**CAS No.** : 901119-35-5  
**Molecular Formula** : C<sub>23</sub>H<sub>26</sub>FN<sub>6</sub>O<sub>9</sub>P  
**Molecular Weight** : 580.4595  
**Target** : Syk  
**Solubility** : 10 mM in DMSO



## Biological Activity

Fostamatinib (R788) is a prodrug of the active metabolite R406, which is a potent, ATP-competitive inhibitor of **Syk kinase** with Ki/IC<sub>50</sub> of 30/41 nM.

Fostamatinib (R788) dose-dependently inhibits anti-IgE-mediated CHMC degranulation with an EC<sub>50</sub> of 56 nM, inhibits all phosphorylation events downstream of Syk signaling.

Fostamatinib (R788) specifically inhibits FcγR signaling in human mast cells, macrophages, and neutrophils. R788 can inhibit local inflammatory injury mediated by immune complexes.

Fostamatinib (R788) reduces immune complex-mediated inflammation in arthritis models.

## References

Braselmann S, et al. *J Pharmacol Exp Ther.* 2006 Dec;319(3):998-1008.

Chen L, et al. *Blood.* 2008 Feb 15;111(4):2230-7.

Suljagic M, et al. *Blood.* 2010 Dec 2;116(23):4894-905.

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

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