

Product Name	: Fostamatinib
Synonyms	: R788 disodium salt; R935788
Cat No.	: M10119
CAS Number	: 1025687-58-4
Molecular Formula	: C ₂₃ H ₂₄ FN ₆ Na ₂ O ₉ P
Formula Weight	: 624.42
Chemical Name	: 2H-Pyrido[3,2-b]-1,4-oxazin-3(4H)-one, 6-[[5-fluoro-2-[(3,4,5-trimethoxyphenyl)amino]-4-pyrimidinyl]amino]-2,2-dimethyl-4-[(phosphonoxy)methyl]-, sodium salt (1:2)
Description	Fostamatinib (R788 disodium salt) is a prodrug of the active metabolite R406, which is a potent, ATP-competitive inhibitor of Syk kinase with K_i/IC₅₀ of 30/41 nM; dose-dependently inhibits anti-IgE-mediated CHMC degranulation with an EC₅₀ of 56 nM, inhibits all phosphorylation events downstream of Syk signaling; specifically inhibits FcγR signaling in human mast cells, macrophages, and neutrophils. R788 can inhibit local inflammatory injury mediated by immune complexes; reduces immune complex-mediated inflammation in arthritis models. Rheumatoid Arthritis Phase 3 Clinical
Pathway	: Angiogenesis
Target	: Syk
Receptor	: Syk
Solubility	: 10 mM in DMSO
SMILES	: [Na+].[Na+].COC1=CC(NC2=NC=C(F)C(NC3=NC4=C(OC(C)(C)C(=O)N4COP([O-])([O-])=O)C=C3)=N2)=CC(OC)=C1OC
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Braselmann S, et al. J Pharmacol Exp Ther. 2006 Dec;319(3):998-1008. | 2. Chen L, et al. Blood. 2008 Feb 15;111(4):2230-7. | 3. Suljagic M, et al. Blood. 2010 Dec 2;116(23):4894-905.