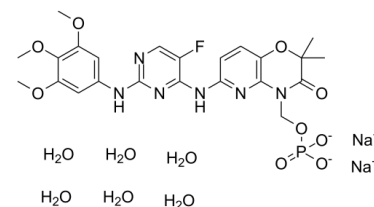


Data Sheet

Product Name:	Fostamatinib disodium hexahydrate
Cat. No.:	CS-2688
CAS No.:	914295-16-2
Molecular Formula:	C ₂₃ H ₂₄ FN ₆ Na ₂ O ₉ P.6H ₂ O
Molecular Weight:	732.51
Target:	Syk
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	H ₂ O : 2 mg/mL (2.73 mM; ultrasonic and warming and heat to 60°C); DMSO : 31.81 mg/mL (43.43 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Fostamatinib disodium hexahydrate (R788 disodium hexahydrate), a prodrug of the active metabolite R406, is a potent Syk inhibitor with IC₅₀ of 41 nM. IC₅₀ & Target: Syk

References:

- [1]. Braselmann, S., et al. R406, an orally available spleen tyrosine kinase inhibitor blocks fc receptor signaling and reduces immune complex-mediated inflammation. *J Pharmacol Exp Ther*, 2006. 319(3): p. 998-1008.
- [2]. Chen, L., et al., SYK-dependent tonic B-cell receptor signaling is a rational treatment target in diffuse large B-cell lymphoma. *Blood*, 2008. 111(4): p. 2230-7.
- [3]. Suljagic, M., et al., The Syk inhibitor fostamatinib disodium (R788) inhibits tumor growth in the Emu- TCL1 transgenic mouse model of CLL by blocking antigen-dependent B-cell receptor signaling. *Blood*, 2010. 116(23): p. 4894-905.

CAIndexNames:

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, hydrate (1:2:6)

SMILES:

COC1=CC(NC2=NC=C(C(NC3=NC(N4COP([O-])([O-])=O)=C(C=C3)OC(C)(C)C4=O)=N2)F)=CC(OC)=C1OC.O.[Na+].[Na+].O.O.O.O.O

Caution: Product has not been fully validated for medical applications. For research use only.

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