

PRODUCT INFORMATION



R788 (sodium salt)

Item No. 18501

CAS Registry No.: 1025687-58-4
Formal Name: 6-[[5-fluoro-2-[(3,4,5-trimethoxyphenyl)amino]-4-pyrimidinyl]amino]-2,2-dimethyl-4-[(phosphonoxy)methyl]-2H-pyrido[3,2-b]-1,4-oxazin-3(4H)-one, disodium salt

Synonyms: Fostamatinib, NSC 745942, R935788, Tamatinib Fosdium

MF: $C_{23}H_{24}FN_6O_9P \cdot 2Na$

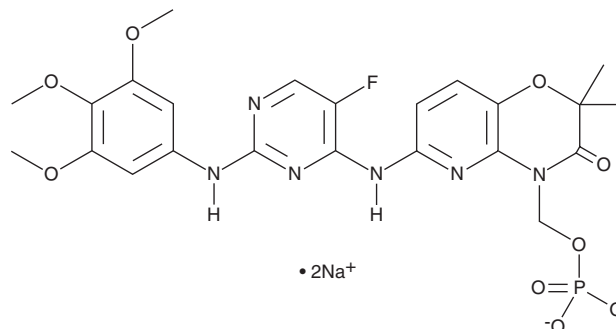
FW: 624.4

Purity: $\geq 95\%$

Stability: ≥ 2 years at -20°C

Supplied as: A crystalline solid

UV/Vis.: λ_{max} : 277, 333 nm



Laboratory Procedures

For long term storage, we suggest that R788 (sodium salt) be stored as supplied at -20°C . It should be stable for at least two years.

R788 (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the R788 (sodium salt) in the solvent of choice. R788 (sodium salt) is soluble in methanol, which should be purged with an inert gas. The solubility of R788 (sodium salt) in methanol is approximately 3 mg/ml.

R788 (sodium salt) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Spleen tyrosine kinase (Syk) is a non-receptor tyrosine kinase that upon phosphorylation binds to immunoreceptor tyrosine-based activation motifs of FcR γ chains and mediates downstream signaling related to platelet function and inflammation. R788 is a prodrug of R406 (Item No. 11422), an inhibitor of Syk ($K_i = 30$ nM).¹ R788 conversion to the biologically active R406 is catalyzed by the action of alkaline phosphatases present on the apical brush-border of the membranes of intestinal enterocytes.¹ It produces anti-inflammatory and immunomodulating effects by inhibiting Syk-mediated IgG Fc γ receptor signaling, which prevents activation of mast cells, macrophages, and B cells, as well as related inflammatory responses.¹ R788 has undergone clinical evaluation for efficacy in the treatment of rheumatoid arthritis.¹

Reference

1. Singh, R., Masuda, E.S., and Payan, D.G. Discovery and development of spleen tyrosine kinase (SYK) inhibitors. *J. Med. Chem.* **55**(8), 3614-3643 (2012).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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