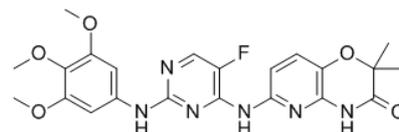


Product Name : R406 free base
Cat. No. : PC-42815
CAS No. : 841290-80-0
Molecular Formula : C₂₂H₂₃FN₆O₅
Molecular Weight : 470.4536
Target : Syk
Solubility : 10 mM in DMSO



Biological Activity

R406 (Tamatinib) free base is a potent, specific and orally available **Syk** kinase inhibitor with I_{c50} of 41 nM, inhibits anti-IgE-mediated CHMC degranulation with EC_{50} of 56 nM.

R406 displays 5- to 100-fold selectivity over a panel of 90 kinases, no activity against Lyn kinase.

R406 does not inhibit phosphorylation of Syk tyrosine 352 but inhibited the phosphorylation of LAT tyrosine 191, inhibits the anti-IgE-induced production and release of LTC₄ and cytokines and chemokines, including TNF α , IL-8, and GM-CSF.

R406 reduces immune complex-mediated inflammation in arthritis models and is orally active.

References

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Pine PR, et al. *Clin Immunol*. 2007 Sep;124(3):244-57.

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

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