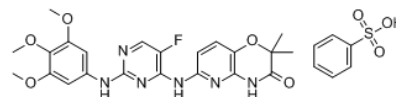


Product Name : R406
Cat. No. : PC-42880
CAS No. : 841290-81-1
Molecular Formula : C₂₈H₂₉FN₆O₈S
Molecular Weight : 628.6287
Target : Syk
Solubility : DMSO: ≥ 61 mg/mL



Biological Activity

R406 (Tamatinib) is a potent, specific and orally available **Syk kinase** inhibitor with IC₅₀ of 41 nM, inhibits anti-IgE-mediated CHMC degranulation with EC₅₀ 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 TNFα, 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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