

PRODUCT: SYK Inhibitor, R406**ALTERNATE NAME:** 6-((5-fluoro-2-((3,4,5-trimethoxyphenyl)amino)pyrimidin-4-yl)amino)-2,2-dimethyl-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one**CATALOG #:** 9682-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₂H₂₃FN₆O₅**MOLECULAR WEIGHT:** 470.45**CAS NUMBER:** 841290-80-0**APPEARANCE:** Off-white solid**SOLUBILITY:** DMSO (>5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** R406 is a potent SYK (Spleen Tyrosine Kinase) inhibitor (IC₅₀ = 41 nM). R406 strongly inhibits SYK but not Lyn, and displays 5-fold less potency towards FLT3. R406 induces apoptosis in diffuse large B-cell lymphoma cell lines. It blocks B cell receptor signaling through inhibition of SYK autophosphorylation of Y525/Y526 and SYK-dependent phosphorylation of the B-cell linker protein.**REFERENCES:** Braselmann, S., *et al.* (2006). *J.Pharmacol. Exp. Ther.* **319**, 998-1008.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**BAY 61-3606 hydrochloride (**Cat. No. 1796-1,5**)Cerdulatinib (**Cat. No. 2803-5,25**)Fostamatinib Disodium (**Cat. No. 1936-1,5**)GS-9973 (**Cat. No. 2669-1,5**)P505-15 (**Cat. No. 9583-5, 25**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**