Product Specification Sheet

Product Name: R406
Catalog Number: C7406-2 (powder)
C7406-2s (10mM in DMSO)
Package Size: 2 mg

Technical information:
- Chemical Formula: C_{22}H_{23}FN_{6}O_{5}
- CAS #: 841290-80-0
- Molecular Weight: 470.45
- Purity: >98%
- Formulation: gray solid
- Solubility: Soluble in DMSO up to 20 mM
- Chemical 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
- Storage: Store solid powder at 4°C desiccated;

Handling:
- For C7406-2 (powder), add 425 µL of DMSO to make 10 mM solution.
- For C7406-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

Biological Activity: R406 is an orally available small molecule targeting spleen tyrosine kinase (SYK) inhibitor with IC50 ~40 nM. It can block Syk-dependent FcR-mediated activation of monocytes/macrophages and neutrophils and BCR-mediated activation of B lymphocytes. R406 has shown efficacy in a number of animal models of immune disorders. R406’s pro-drug R788 (Fostamatinib) is currently in phase III clinical trials to treat rheumatoid arthritis.

Reference:

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