



R406 Benzenesulfonate

Catalog No: tcsc0229

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 841290-81-1
Formula: $ {\rm C}_{28}{\rm H}_{29}{\rm FN}_6{\rm O}_8{\rm S} $
Pathway: Protein Tyrosine Kinase/RTK
Target: Syk
Form: Pale-Yellow Solid
Purity / Grade: >99%
Solubility: DMSO: 25 mg/mL (39.8mM) Water Insoluble
Storage Instruction: Powder -20°C for 3 years In solvent -80°C for 12 months





Observed Molecular Weight:

628.63

Product Description

R406 is a potent inhibitor of immunoglobulin E (IgE)- and IgG-mediated activation of Fc receptor signaling. R406 inhibits the anti-IgE-induced production and release of LTC4 and cytokines and chemokines, including TNF α , IL-8, and GM-CSF. R406 inhibits phosphorylation of Syk substrate linker for activation of T cells in mast cells and B-cell linker protein/SLP65 in B cells. R406 binds to the ATP binding pocket of Syk and inhibits its kinase activity as an ATP-competitive inhibitor with K of 30 nM. R406 blocks Syk-dependent FcR-mediated activation of monocytes/macrophages and neutrophils and Bcr-mediated activation of B lymphocytes. R406 significantly induces chronic lymphocytic leukemia (CLL) cell apoptosis in nurselike cells cocultures and blocks CCL3 and CCL4 secretion by CLL cells in response to B-cell antigen receptor (Bcr) triggering. R406 is a potent inhibitor of platelet signaling and functions initiated by FcyRIIA cross-linking by specific antibodies or by sera from HIT patients.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!