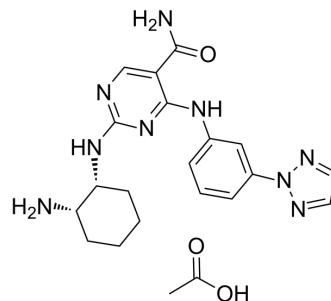


PRT062607 acetate

Cat. No.:	HY-15324
CAS No.:	1370261-98-5
Molecular Formula:	C ₂₁ H ₂₇ N ₉ O ₃
Molecular Weight:	453.5
Target:	Syk; Syk; Src; Mixed Lineage Kinase; PAK; Pyk2; FAK; Apoptosis
Pathway:	Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway; Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	PRT062607 (P505-15) acetate is an orally available Syk inhibitor (IC ₅₀ : 1 nM) that inhibits inflammation and induction Apoptosis. ^{[1][2]}
In Vitro	<p>PRT062607 acetate also has significant activity against multiple kinases, with IC₅₀s of 81 nM (Fgr), 88 nM (MLK1), 123 nM (Yes), 139 nM (Flt3), 166 nM (PAK5), 192 nM (Lyn), 244 nM (cSRC), 249 nM (Lck), 108 nM (Pyk), 415 nM (FAK), 1.05 nM (ZAP-70) [1].</p> <p>PRT062607 acetate (0.01-2 μM; 3 d) inhibits Phosphorylation of ERK(Y204), AKT(S473) and SYK(Y352) in Ramos cells, and inhibition of BLNK Tyr84 phosphorylation^{[1][2]}.</p> <p>PRT062607 acetate (2 μM; 24 h) in SU-DHL6 cells Induces apoptosis in human whole blood^[1].</p> <p>In human whole blood, P505-15 can effectively inhibit B cell antigen receptor-mediated B cell signaling and activation (IC₅₀: 0.27 and 0.28 μM) and Fc receptor 1-mediated induced basophil degranulation (IC₅₀: 0.15 μM)^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>PRT062607 acetate produced dose-dependent anti-inflammatory activity in two rodent models of rheumatoid arthritis.</p> <p>PRT062607 acetate (15, 30 mg/kg; po; bid; 5 d) causes SYK inhibition in mice and prevents BCR-induced splenomegaly in mice^[1].</p> <p>PRT062607 acetate (15 mg/kg; po ; bid; 5 d) SYK inhibition in mice prevents Ramos tumor formation in mouse xenograft models^[1].</p> <p>PRT062607 acetate (10-20 mg/kg; po; bid,) prevents BCR mediated splenomegaly and significantly inhibited NHL tumor growth in xenograft models^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2022 Oct 25;119(43):e2207280119.
- Int J Ophthalmol. 2022 Jul 18;15(7):1044-1052.
- Harvard Medical School LINCS LIBRARY

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