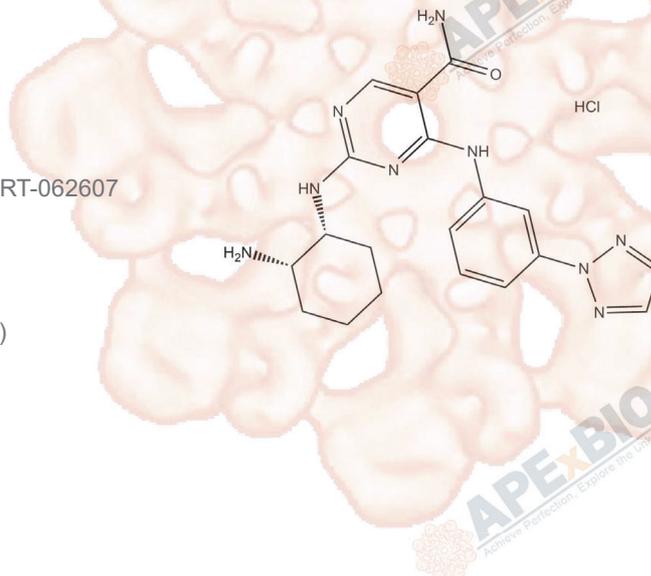


## PRT062607 Hydrochloride

<b>Cat. No.:</b>	A3736
<b>CAS No.:</b>	1370261-97-4
<b>Formula:</b>	C <sub>19</sub> H <sub>24</sub> CIN <sub>9</sub> O
<b>M.Wt:</b>	429.91
<b>Synonyms:</b>	PRT 062607 hydrochloride;PRT-062607 hydrochloride
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	Spleen Tyrosine Kinase (Syk)
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥21.5 mg/mL in DMSO, insoluble in EtOH, ≥83.2 mg/mL in H<sub>2</sub>O with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	1mg	5mg	10mg
			1 mM	2.3261 mL	11.6303 mL
		5 mM	0.4652 mL	2.3261 mL	4.6521 mL
		10 mM	0.2326 mL	1.1630 mL	2.3261 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

SYK inhibitor, potent and selective

IC<sub>50</sub> & Target

1 nM (Syk), 81 nM (Fgr), 88 nM (MLK1)

In Vitro

#### Cell Viability Assay

Cell Line: Primary B-cells, SU-DHL6 cells

Preparation method: The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions: 1 μM, 24 hours

	Applications:	To compare the relative sensitivity of primary versus tumor B-cells, the mixing experiments in which SU-DHL6 was combined with human whole blood and treated with P505-15 were performed. Under these conditions, whereas the tumor B-cell line underwent apoptosis in response to SYK inhibition, primary B-cells did not.
In Vivo	<b>Animal experiment</b>	
	Animal models:	NOD/SCID mice injected with Ramos cells
	Dosage form:	Oral administration, 10, 15, or 20 mg/kg, twice daily
	Applications:	A statistically significant reduction in average tumor weight was achieved in all dosing groups relative to vehicle control. It revealed that submicromolar concentrations of P505-15 prevented tumor formation by an aggressive NHL cell line in mice.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1] Spurgeon S E, Coffey G, Fletcher L B, et al. The selective SYK inhibitor P505-15 (PRT062607) inhibits B cell signaling and function in vitro and in vivo and augments the activity of fludarabine in chronic lymphocytic leukemia. *Journal of Pharmacology and Experimental Therapeutics*, 2013, 344(2): 378-387.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

## APExBIO Technology

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