

## Polzastobart

## Chemical Properties

CAS No. : 2640981-19-5

Formula:

Molecular Weight: 146.48 kDa

Storage: Store at low temperature  
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Polzastobart (JTX-8064) is a humanized monoclonal antibody targeting LILRB2 that blocks its interaction with ligands and MHC class I molecules. Polzastobart blocks LILRB2-mediated immunosuppressive signaling, promotes the polarization of macrophages toward a pro-inflammatory phenotype, and enhances their production of pro-inflammatory cytokines. Polzastobart is a macrophage immune checkpoint inhibitor. Polzastobart exhibits antitumor activity and is being investigated for the treatment of refractory solid tumors.
Targets(IC50)	Others
In vitro	Polzastobart blocks the binding of LILRB2 to its homologous ligands, including classical and non-classical MHC molecules. In vitro, Polzastobart drives human macrophages and dendritic cells to polarize toward immunostimulated phenotypes. Polzastobart binds to purified LILRB2 protein with high affinity. The Kd value is $3.18 \pm 0.083$ nmol/L, the association rate constant is $6.58 \times 10^5$ M <sup>-1</sup> s <sup>-1</sup> , and the dissociation rate constant is $2.09 \times 10^{-3}$ s <sup>-1</sup> . Polzastobart increases LPS-induced TNF- $\alpha$ production and suppresses the production of the immunosuppressive cytokine IL10 in a dose-dependent manner. The EC50 concentration of TNF- $\alpha$ production is 0.01356 nmol/L, and the IC50 concentration of IL10 production is 0.01425 nmol/L. [1] Polzastobart has been shown to enhance the production of pro-inflammatory cytokines in macrophages. [2]
In vivo	Polzastobart causes human macrophages to repolarize from M2 (inhibitory) to M1 (pro-inflammatory) phenotype and enhances anti-tumor immunity in mouse models. [2]

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0341 mL	0.0683 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481