

## Polzastobart

## Chemical Properties

CAS No. : 2640981-19-5

Formula:

Molecular Weight: 146.48 kDa

Store at low temperature

Storage: -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	<p>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 <math>3.18 \pm 0.083</math> nmol/L, the association rate constant is <math>6.58 \times 10^5</math> M<sup>-1</sup> s<sup>-1</sup>, and the dissociation rate constant is <math>2.09 \times 10^{-3}</math> s<sup>-1</sup>.</p> <p>Polzastobart increases LPS-induced TNF-<math>\alpha</math> production and suppresses the production of the immunosuppressive cytokine IL10 in a dose-dependent manner. The EC50 concentration of TNF-<math>\alpha</math> production is 0.01356 nmol/L, and the IC50 concentration of IL10 production is 0.01425 nmol/L. [1]</p> <p>Polzastobart has been shown to enhance the production of pro-inflammatory cytokines in macrophages. [2]</p>
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