

Sarilumab (anti-IL-6R α) Catalog No.A2011

Technical Data

CAS No.	1189541-98-7
Formulation	PBS buffer, pH 7.2
Isotype	Human IgG1
Source	CHO cells
Storage	Store the undiluted solution at 4°C in the dark to avoid freeze-thaw cycles

Biological Activity

Description	Sarilumab (anti-IL-6R α) is a fully human anti-IL-6Rα mAb that binds membrane-bound and soluble human IL-6R α with high affinity, MW: 144.13 KD.	
Targets	IL-6R (human) ^[1] () 61.9 pM(Kd)	IL-6R (monkey) ^[1] () 71.9 pM(Kd)
In vitro	Sarilumab (SAR153191/REGN88) is a fully human anti-IL-6R α mAb that binds membrane-bound and soluble human IL-6R α with high affinity thereby blocking cis and trans IL-6-mediated inflammatory signalling cascade, and with no evidence of complement-dependent or antibody-dependent cell-mediated cytotoxicity ^[1] . Sarilumab provides partial growth inhibition of a subset of the tumor cell lines tested, e.g., DU145 (prostate), Calu3 (lung) and A549 (lung) ^[2] . Sarilumab bound with high affinity to recombinant monomeric human and monkey IL-6 receptor with a KD value of 61.9 pM and 71.9 pM, respectively. The binding affinity of sarilumab to the dimeric human IL-6 receptor Fc-fusion is 12.8 pM. sarilumab is specific to human and monkey IL-6 receptor and does not cross-react with mouse IL-6R ^[3] .	
In vivo	Sarilumab has been shown in preclinical studies to inhibit IL-6 signalling in a dose-dependent manner ^[1] .	
Features	Human IgG1	

References

- [1] Huizinga TW, et al. *Ann Rheum Dis.* 2014, 73(9):1626-34.
 [2] Li Zhang, et al. *AACR; Cancer Res* 2012;72(8 Suppl):Abstract nr 2723.
 [3] A. Rafique, et al. *Rheumatic diseases.* 2013, 72 (suppl 3).

Sarilumab (anti-IL-6R α) has been referenced in publications.

Human mesenchymal stem cells-derived conditioned medium inhibits hypoxia-induced death of neonatal porcine islets by inducing autophagy. [*Xenotransplantation*, 2019, doi: 10]

[PubMed: 31578787](#)

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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 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.