

## Placulumab

Cat. No.:	HY-P99775
CAS No.:	945781-29-3
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Placulumab (ART621) is an anti-TNF $\alpha$ monoclonal antibody. Placulumab has anti-inflammatory activity and has potential applications in inflammatory diseases such as arthritis <sup>[1]</sup> .						
<b>In Vitro</b>	Placulumab (0.01-1000 $\mu$ g/mL) has cytotoxicity to NS0 cells and peripheral blood mononuclear cells (PBMCs) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
<b>In Vivo</b>	<p>Placulumab (0.3, 1, 3 and 10 mg/kg; i.p.; twice weekly for 8 weeks) has effective anti-arthritis properties in Tg197 transgenic mouse model<sup>[1]</sup>.</p> <p>Pharmacokinetic (PK) parameters of Placulumab in cynomolgus macaques<sup>[1]</sup></p>						
	Route	Dose (mg/kg)	Exposure AUC <sub>0-336 h</sub> (ng.h/mL)	Maximum concentration C <sub>max</sub> (ng/mL)	Time of maximum concentration t <sub>max</sub> (h)	Elimination half-life t <sub>1/2</sub> (h)	Clearance C <sub>L</sub> (mL/hr/kg)
	Intravenous injection (Males)	50	46000000	1320000	0.167	104	0.985
	Intravenous injection (Females)	50	43300000	1020000	0.211	97.4	1.06
	Route	Dose (mg/kg)	Exposure AUC <sub>0-336 h</sub> (ng.h/mL)	Dose normalize exposure AUC <sub>0-336 h</sub> (norm)	Maximum concentration C <sub>max</sub> (ng/mL)	Time of maximum concentration t <sub>max</sub> (h)	Elimination half-life t <sub>1/2</sub> (h)
	Subcutaneous injection (Males)	0.5	676000	1350000	3190	50.0	120

Subcutaneous injection (Females)	0.5	445000	890000	2880	48.0	108
Subcutaneous injection (Males)	5	3940000	788000	22700	40.0	117
Subcutaneous injection (Females)	5	3840000	767000	23800	12.0	109
Subcutaneous injection (Males)	50	41600000	832000	272000	40.0	122
Subcutaneous injection (Females)	50	32300000	646000	212000	32.0	107

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## REFERENCES

[1]. Gay RD, et al. Anti-TNF $\alpha$  domain antibody construct CEP-37247: Full antibody functionality at half the size. MAbs. 2010 Nov-Dec;2(6):625-38.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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