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## Rozanolixizumab

Cat. No.:	HY-P9979
CAS No.:	1584645-37-3
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Rozanolixizumab (UCB7665), a humanized high-affinity anti-human neonatal Fc receptor (FcRn) monoclonal antibody (IgG4P), is used to the research of reducing pathogenic IgG in autoimmune and alloimmune diseases <sup>[1]</sup> .
<b>In Vitro</b>	Rozanolixizumab binds to human FcRn and cynomolgus monkey FcRn with a similar affinity at both pH 6.0 ( $K_d$ 23 pM and 25 pM, human and cynomolgus monkey, respectively) and pH 7.4 (34 pM and 53 pM, human and cynomolgus monkey, respectively). Rozanolixizumab is observed to inhibit the recycling ( $IC_{50}$ 0.41 nM) of human IgG by human FcRn-transfected MDCK cells in a dose-dependent manner. Recycling of IgG was also inhibits in cynomolgus monkey FcRn-transfected MDCK cells ( $IC_{50}$ 0.98nM) <sup>[1]</sup> . Rozanolixizumab causes an increase in intracellular IgG AF647 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Intravenous (IV) rozanolixizumab dosing in cynomolgus monkeys demonstrated non-linear pharmacokinetics indicative of target-mediated drug disposition; single IV rozanolixizumab doses (30 mg/kg) in cynomolgus monkeys reduced plasma IgG concentration by 69% by Day 7 post-administration. Daily IV administration of rozanolixizumab (initial 30 mg/kg loading dose; 5 mg/kg daily thereafter) reduced plasma IgG concentrations in all cynomolgus monkeys, with low concentrations maintained throughout the treatment period (42 days) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Smith B, et al. Generation and characterization of a high affinity anti-human FcRn antibody, rozanolixizumab, and the effects of different molecular formats on the reduction of plasma IgG concentration. MAbs. 2018;10(7):1111-1130.

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

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