ABSTRACT

TITLE: PHARMACEUTICAL FORMULATION CONTAINING IMPROVED ANTIBODY MOLECULES

An objective of the present invention is to provide pharmaceutical formulations containing improved antibody molecules. The present invention provides pharmaceutical formulations comprising second-generation molecules that are superior than TOCILIZUMAB, by altering the amino acid sequences of the variable and constant regions of TOCILIZUMAB, which is a humanized anti-IL-6 receptor IgG1 antibody, to enhance the antigen-neutralizing ability and increase the pharmacokinetics, so that the therapeutic effect is exerted with a less frequency of administration, and the immunogenicity, safety and physicochemical properties (stability and homogeneity) are improved. Present formulations contain preferably arginine as stabilizer and are provided in liquid or solid form.

Fig. 18