PRODUCT INFORMATION

Target	IL31
Synonyms	Interleukin-31，IL-31
Description	Recombinant Canine IL31 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	C7G0W1
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	IL31(Ser24-Gln159)+hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 41.5 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	IL31, which is made principally by activated Th2-type T cells, interacts with a heterodimeric receptor consisting of IL31RA (MIM 609510) and OSMR (MIM 601743) that is constitutively expressed on epithelial cells and keratinocytes. IL31 may be involved in the promotion of allergic skin disorders and in regulating other allergic diseases, such as asthma (Dillon et al., 2004 [PubMed 15184896]).[supplied by OMIM, Mar 2008]
Usage	Research use only
Conjugate	Unconjugated

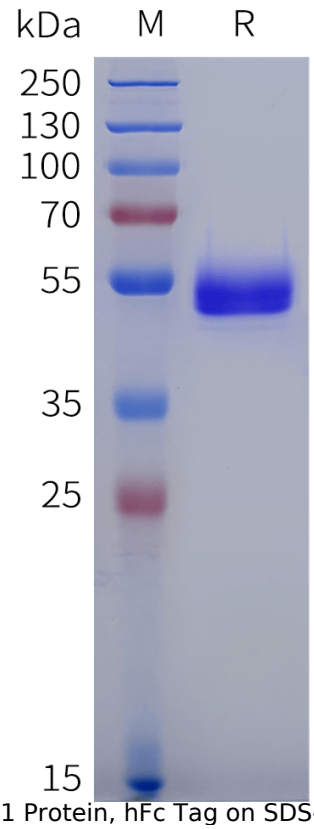

Figure 1. Canine IL31 Protein, hFc Tag on SDS-PAGE under reducing condition.

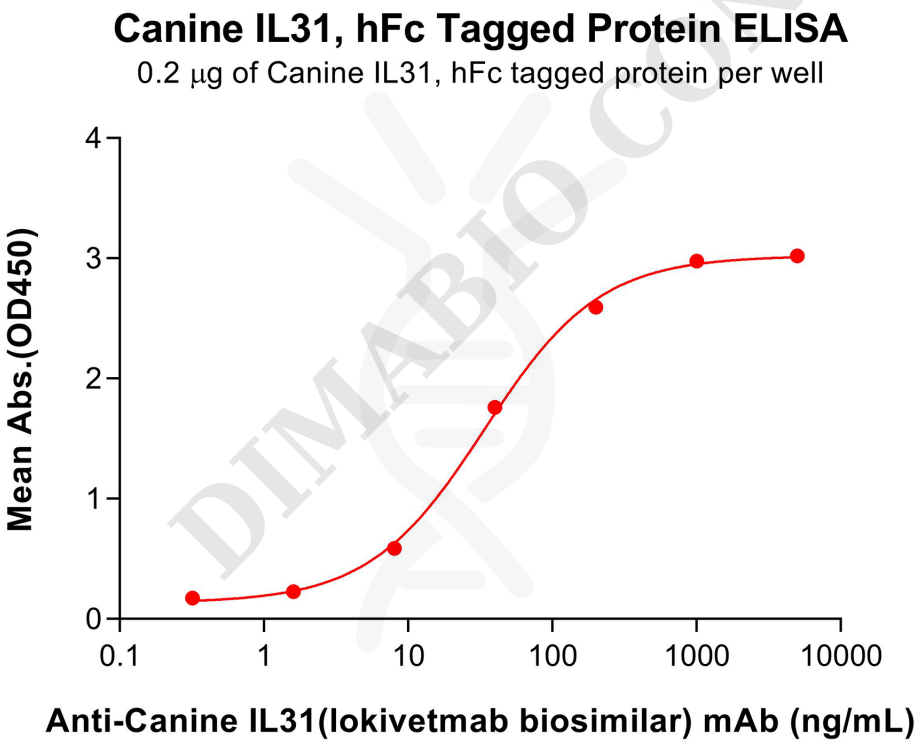

Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Canine IL31 Protein, hFc Tag (PME-D100012) can bind Anti-Canine IL31(lokivetmab biosimilar) mAb (BME100268) in a linear range of 8.0-40 ng/mL. In order to specifically detect BME100268, mouse anti-human Fab-specific antibody was used as detection antibody.