

## PRODUCT INFORMATION

<b>Target</b>	IL31
<b>Synonyms</b>	Interleukin-31 □ IL-31
<b>Description</b>	Recombinant Canine IL31 protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	C7G0W1
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	IL31(Ser24-Gln159)+hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 41.5 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage&amp;Shipping</b>	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.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	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]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



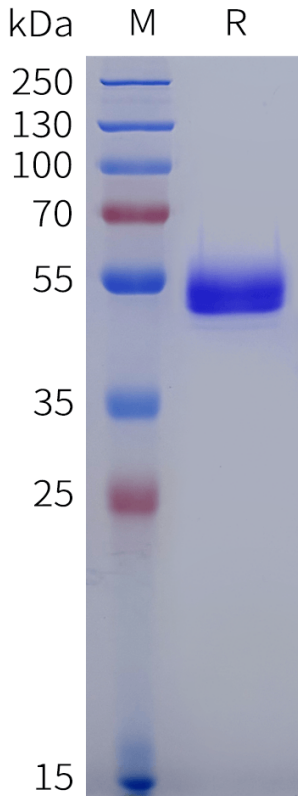
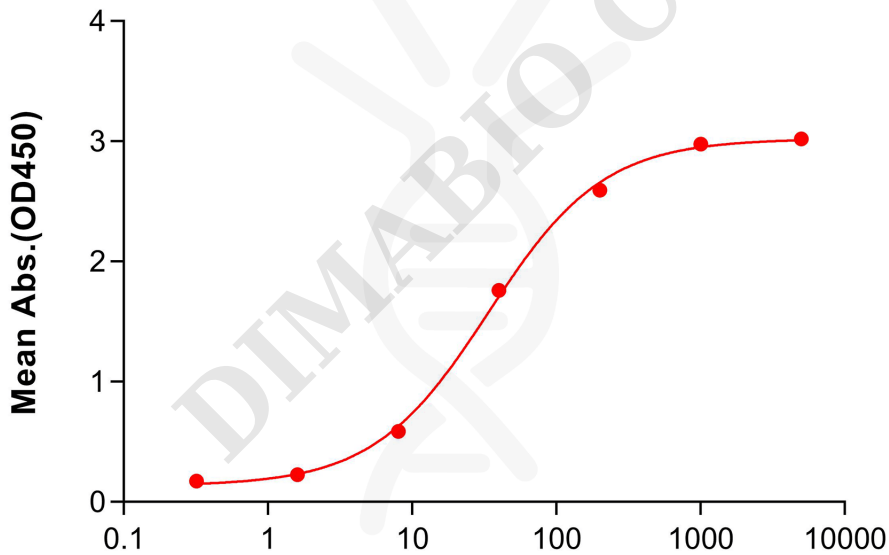


Figure 1. Canine IL31 Protein, hFc Tag on SDS-PAGE under reducing condition.

### Canine IL31, hFc Tagged Protein ELISA

0.2 µg of Canine IL31, hFc tagged protein per well



### Anti-Canine IL31(lokivetmab biosimilar) mAb (ng/mL)

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.

