

IL-23R Protein, Canine, Recombinant (His)

General Information

Synonyms:	IBD17;IL-23 R;IL-23 receptor
Protein Construction:	Gly24-Asp354
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	A0A8I3PXL0
Molecular Weight:	39.31 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Canine IL-23R, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-23 alpha&IL-12 beta, His Tag with the EC50 of 1.95µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. The functional IL-23 receptor complex consists of two receptor subunits, the IL-12 receptor beta 1 subunit (IL-12 R beta 1) and the IL-23-specific receptor subunit (IL-23 R). This receptor associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade.

Reference

Campa M, et al. A Review of Biologic Therapies Targeting IL-23 and IL-17 for Use in Moderate-to-Severe Plaque Psoriasis[J]. *Dermatology and Therapy*, 2016, 6(1):1-12.

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