Recombinant Mouse Il4ra Protein, C-hFc-tagged

Product Information

Cat	*IMP-4739*
Official Symbol	*Il4ra*
Product Overview	*Recombinant mouse IL4R (AAB87750.1) (Met1-Arg233) was expressed with the Fc region of human IgG1 at the C-terminus.*
Description	*The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alters the behavior of the cell. Some CD proteins do not take part in the cell signal process but have other functions such as cell adhesion. CD124, also known as the interleukin 4 receptor (IL4R), is a type□ transmembrane protein that can regulate IgE antibody production in B cells through binding to interleukin 4 and interleukin 13 and promote differentiation of Th2 cells through binding to interleukin 4. The membrane-bound form of CD124 can be hydrolyzed to a soluble form which can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells.*
Expression System	*HEK293*
Species	*Mouse*
Tag	*C-hFc*
Predicted N Terminal	*Ile 26*
Form	*Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.*
Molecular Mass	*The recombinant mouse IL4R consists of 446 amino acids and predicts a molecular mass of 51.1 kDa.*
Protein length	*Met1-Arg233*
Endotoxin	*< 1.0 EU/μg of the protein as determined by the LAL method*
Purity	*> 95 % as determined by SDS-PAGE*
Storage	*Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.*
Reconstitution	*A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.*

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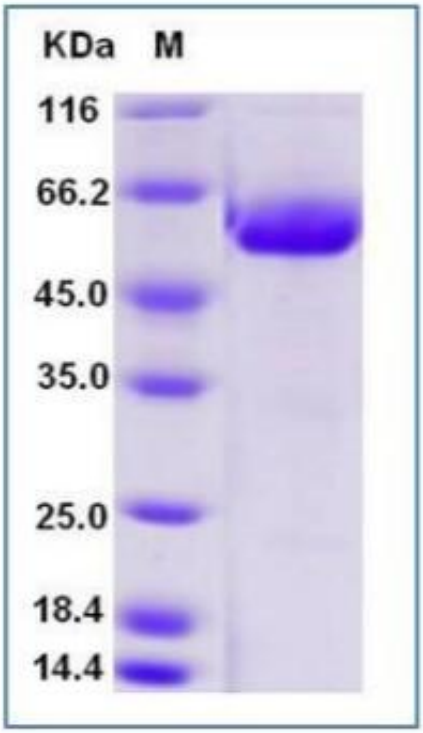
SDS-PAGE



Bioactivity-Cell based assay 1

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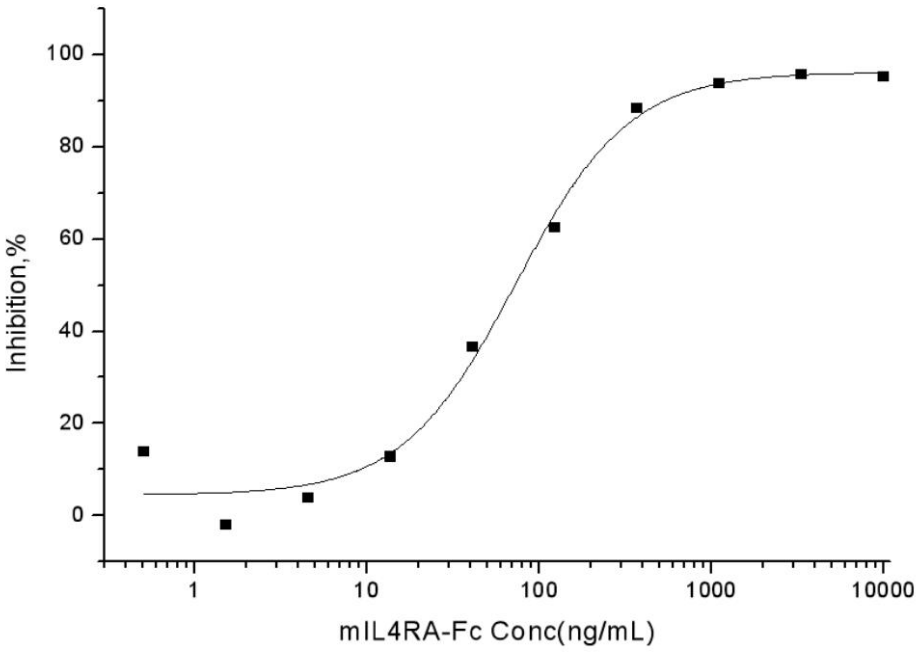

Measured by its ability to inhibit the mIL-4-dependent proliferation of HT-2 mouse T cells. The ED50 for this effect is 50-200 ng/mL in the presence of 2 ng/mL of recombinant mouse IL-4.

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