

ILDR2 Protein, Human, Recombinant (His)

General Information

Synonyms:	Angulin-3;immunoglobulin-like domain containing receptor 2;DJ782G3.1;C1orf32;ILDR2;Dbsm1;LISCH-Like
Protein Construction:	Leu21-Glu186
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q71H61
Molecular Weight:	45-55 KDa (reducing condition)
AA Sequence:	Leu21-Glu186

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ILDR2 is a member of the B7-like family of proteins that regulate T cell activity, is also a known endoplasmic reticulum molecule that regulates lipid homeostasis. The human ILDR2 luminal domain shares a 99% and 98% homology with the mouse and rat respectively. The human gene encoding ILDR2 is located in a region on Chr1q23-25 that has been associated with type 2 diabetes. ILDR2 plays critical roles in hepatic clearance of lipoproteins and in lipid homeostasis. ILDR2 regulates human dendritic cells (DC2 cells, a subpopulation of

polarized DCs that promotes Th2 differentiation). Recent publications reported that ILDR2 displayed negative regulatory functions on human and mouse T cells in various experimental systems. Fusion protein of ILDR2 luminal domain with an Fc fragment, displays therapeutic effects in collagen-induced arthritis (CIA), a mouse model of rheumatoid arthritis (RA). ILDR2 represents a novel B7-like ligand that exerts negative immune modulation via interaction with a putative counterpart receptor expressed on activated T cells.

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