

# Recombinant Human ILDR2 (C-6His)

Catalog Number:PKSH034056



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

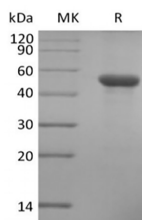
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | Angulin-3;C1orf32;Dbsm1;DJ782G3.1;ILDR2;immunoglobulin-like domain containing receptor 2;LISCH-Like |
| <b>Species</b>                     | Human   |
| <b>Expression Host</b>             | HEK293 Cells  |
| <b>Sequence</b>                    | Leu21-Glu186  |
| <b>Accession</b>                   | Q71H61  |
| <b>Calculated Molecular Weight</b> | 19.5 kDa  |
| <b>Observed molecular weight</b>   | 45-55 kDa   |
| <b>Tag</b>                         | C-His   |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.              |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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

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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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