

## Recombinant Human ILDR2 (C-6His)

**Catalog Number:** PKSH034056

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

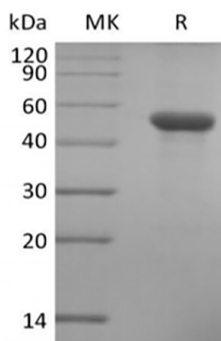
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human ILDR2 protein Leu21-Glu186, with an C-terminal His
<b>Calculated MW</b>	19.5 kDa
<b>Observed MW</b>	45-55 kDa
<b>Accession</b>	Q71H61
<b>Bio-activity</b>	Not validated for activity

### 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. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

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.