Recombinant Human IL12RB1 Protein (Fc Tag)

Catalog Number: PKSH033356

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

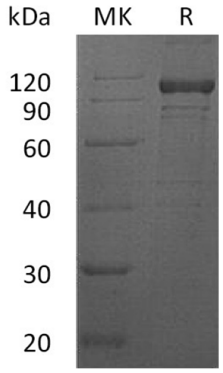
Description

Species	Human
Source	HEK293 Cells-derived Human IL12RB1 protein Cys24-Glu540, with an C-terminal Fc
Calculated MW	84.2 kDa
Observed MW	95-110 kDa
Accession	P42701
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 5% trehalose, 5% mannitol, 0.02% Tween 80, pH8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Interleukin12 receptor subunit beta 1 (IL12RB1) is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. IL12RB1 can spontaneously form homodimers and -oligomers; which are able to bind IL12 with only low affinity. IL12 high affinity receptor complex is composed of two subunits designated IL12RB1 and IL12RB2. While IL12RB1 interacts with the IL-12p40 subunit; IL-12p35 is mainly connecting with IL12RB2. This receptor chain is also responsible for transmitting the IL12 signal into the cell. IL12RB1; to the contrary; is also part of the IL23R; where it interacts with the p40 subunit of IL23. IL12RB1 is expressed in activated T cells; NK cells and B cells.

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