A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse IL12RB2/IL12R-beta 2 Protein (Fc Tag)

Catalog No. PKSM041052

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

Description

Synonyms IL12RB2;IL-12 receptor beta 2;IL-12 receptor subunit beta-2;IL-12R subunit

beta-2;IL-12RB2;IL-12R-beta-2;interleukin-12 receptor beta-2 chain;interleukin-12

receptor subunit beta-2

Species Mouse

Expression Host HEK293 Cells
Sequence Met1-Asn637
Accession P97378
Calculated Molecular Weight 98.4 kDa
Observed molecular weight 125-160 kDa

Tag C-Fc

Bioactivity Not validated for activity

Properties

Purity > 95 % 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 PBS, pH 7.4.

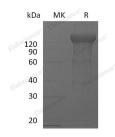
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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The IL12 receptor complex, formed by IL12RB1 and IL12RB2, mediates the type I immune responses of various types of lymphocytes. Its ligand, IL12, is a heterodimeric cytokine composed of IL-12p35 and IL-12p40 subunits that are linked via disulfide bonds. Ligation of IL-12 to its receptor involves the binding of IL-12p35 to IL12RB1 and IL-12p40 to IL12RB2. This will result in the activation of tyrosine kinase 2 (TYK2), which is associated with the IL12RB1 chain and Janus kinase 2 (JAK2), which is associated with the IL12RB2 chain. Activated TYK2 and JAK2 direct the phosphorylation of STAT4. IL12RB1 is present on all lymphocytes, while the expression of IL12RB2 is tightly regulated. It has shown that the expression of IL12RB2 is limited to Th2 cells. IL12RB2 subunit plays an important role in Th1 cell differentiation, since its absence leads to an abortive Th1 differentiation that has dysfunctional production of Th1 effector molecules.

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