

Recombinant Mouse IL-12B/IL-12 p40 Protein

Catalog No.: RP01696

Sequence Information

Species **Gene ID**
Mouse 16160

Swiss Prot **Tags**
P43432 NO-tag

Synonyms
p40; IL-12b; IL12p40; IL-12p40; IL12B

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
35.79 kDa 45–50 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Subunit beta of interleukin 12 (also known as natural killer cell stimulatory factor 2, or cytotoxic lymphocyte maturation factor 2, p40) (IL12B) is a subunit of human interleukin 12. IL12B/IL-12B is a cytokine that acts on T and natural killer cells and has a broad array of biological activities. IL12B/IL-12B is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine is important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen.

Basic Information

Description

Recombinant Mouse IL-12B/IL-12 p40 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met23–Ser335) of mouse IL-12B (Accession #NP_001152896.1) fused with no additional amino acid.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse IL12B (Catalog: RP01696) at 10 μg/mL (100 μL/well) can bind Human IL12RB1 with a linear range of 0.02–51 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

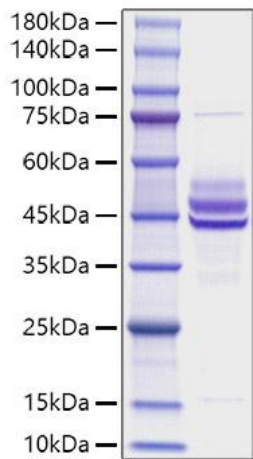
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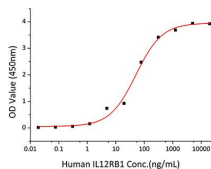
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Validation Data



Recombinant Mouse IL-12B/IL-12 p40 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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