

Recombinant Human IL-13 Protein

Catalog No.: RP01320LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3596	P35225

Tags
NO-tag

Synonyms
IL13;IL-13;P600

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
13.3 kDa	16-20 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

Background

Interleukin 13 (IL13) is also known as ALRH, and P600, is a single-chain glycosylated polypeptide, and is a cytokine critical in regulating inflammatory and immune responses. IL13 is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains. As a cytokine, IL-13 protein is critical in regulating inflammatory, immune responses, and diseases. Also, it inhibits the production of pro-inflammatory cytokines and chemokines, and thus down-regulates macrophage activity. IL-13 protein and antibody are more importantly implicated as a central mediator of immunoregulatory processes in various cell types.

Basic Information

Description

Recombinant Human IL-13 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly21-Asn132) of Human IL13 (Accession #NP_002179.2) fused with an 6×His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 1-4 ng/mL, corresponding to a specific activity of 0.25 × 10⁶~1.0 × 10⁶ units/mg.

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

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