

# Recombinant Human Interleukin-13/IL-13 Protein (Fc Tag)



Catalog Number:PKSH032457

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

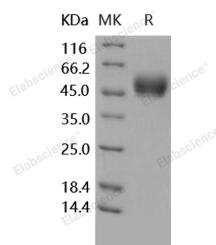
## Description

<b>Synonyms</b>	ALRH;IL-13;P600;IL13
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gly 21-Asn 132
<b>Accession</b>	AAK53823.1
<b>Calculated Molecular Weight</b>	39.0 kDa
<b>Observed molecular weight</b>	50-55 kDa
<b>Tag</b>	N-hFc
<b>Bioactivity</b>	Immobilized recombinant human IL13RA2 at 8 µg/ml (100 µl/well) can bind IL13 with a linear range of 0.25-8.0 ng/ml.

## Properties

<b>Purity</b>	> 98 % 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 sterile 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

Interleukin 13 (IL-13) is a single-chain glycosylated polypeptide, which belongs to the IL-13/IL-4 family. IL-13 protein is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 exerts its effects through a multi-subunit receptor comprising the alpha chain of the IL-4 receptor (IL-4R $\alpha$ ) and at least one of two known IL-13-specific binding chains (IL-13 R $\alpha$ 1 and IL-13 R $\alpha$ 2). As a cytokine, IL-13 protein is critical in regulating inflammatory, immune responses and diseases. In addition, it inhibits the production of pro-inflammatory cytokines and chemokines, and thus down-regulates macrophage activity. IL-13 protein and antibody is more importantly implicated as a central mediator of

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immunoregulatory processes in various cell types.

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