

Datasheet for ABIN2018016
IL-13 Protein (AA 19-132)**2** Images[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL-13 (IL13)
Protein Characteristics:	AA 19-132
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 15 ng/mL, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7x10 ⁵ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-13 (IL13)
Alternative Name:	Interleukin 13 (IL-13) (IL13 Products)
Background:	Interleukin 13 (IL-13) is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and

Target Details

macrophages and it inhibits the expression of inflammatory cytokines such as IL-1beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and mouse IL-13 is cross-species reactive. Recombinant human interleukin 13 expressed in CHO cells is glycosylated protein with molecular weight range from 25 to 45 kDa shown in non-reducing SDS-PAGE.

Synonyms: NC30 (Human), P600 (Murine), IL-13 (human)

Molecular Weight: 25-45 kDa, observed by non-reducing SDS-PAGE.

UniProt: [P35225](#)

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

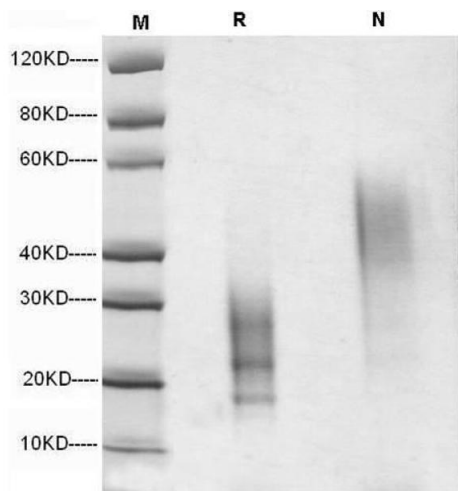
Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

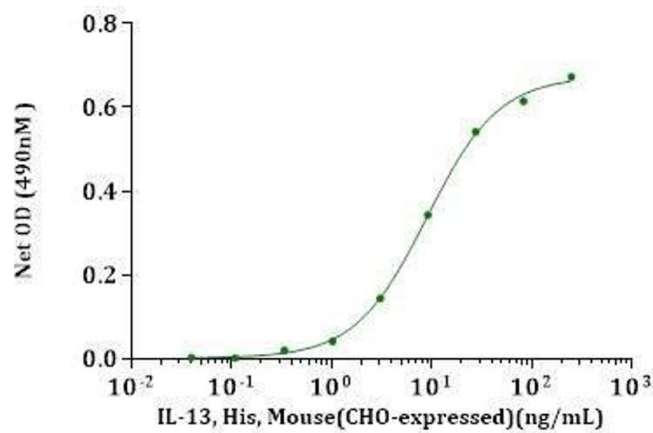
Storage Comment: Lyophilized recombinant human Interleukin 13 (IL-13) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-13 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months



SDS-PAGE

Image 1. 5 µg of IL-13, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



Activity Assay

Image 2. IL-13, Human(CHO-expressed) stimulates cell proliferation of R&D TF-1 cells. The ED50 for this effect is less than 15ng/mL (14.56ng/mL).