

DATASHEET

Version 20181206

IL-13, Human(CHO-expressed)**Cat. No.:** Z03020-1**Size:** 1.0 mg**Synonyms:** NC30 (Human), P600 (Murine);IL-13 (human)**Description:**

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 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.

Amino Acid Sequence:

00001 SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL
00041 TAGMYCAALE SLINVGCSA IEKTQRMLSG FCPHKVSAGQ
00081 FSSLHVRDTK IEVAQFVKDL LLHLKKLFRE GRFN

Source: CHO**Species:** Human**Biological Activity:** ED₅₀ < 15 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7×10⁵ units/mg.**Molecular Weight:** 25-45 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant human Interleukin 13 (IL-13) remains stable up to 6 months at lower than -70°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.