

IL-13 Protein, Mouse, Recombinant (CHO, His)

General Information

Synonyms:	NC300 (Human);IL13;P600 (Murine)
Protein Construction:	Pro22-Phe131
Species:	Mouse
Expression Host:	CHO Cells
Accession:	P20109
Molecular Weight:	14~30 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 20.0 ng /ml, measured in a cell proliferation assay using R&D TF-1 cells.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-13 (IL-13), also known as T-cell activation protein P600, is an immunoregulatory cytokine belonging to the IL-4/IL-13 family. It is produced by activated Th2 cells, mast cells and NK cells. IL-13 signals through a receptor complex composed of IL-4Rα and IL13Rα1 (or IL13Rα2). IL-13 inhibits the expression of inflammatory cytokines such as IL-1β, TNF-α and IL-6 by monocytes and macrophages. It also induces B cell activation and IgE secretion.

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