

DATA SHEET

GFM22

Recombinant Mouse IL-13

Description

Interleukin-13 (IL-13) is a cytokine secreted from type 2 T helper (Th2) cells. IL-13 has overlapping functions with interleukin-4 (IL-4), including the induction of immunoglobulin E (IgE) secretion from B cells, and the inhibition of interleukin-1 β (IL-1 β), Tumor Necrosis Factor α (TNF- α), interleukin-8 (IL-8), and interleukin-6 (IL-6) inflammatory cytokine expression. IL-13 also regulates immune cell inflammation in response to the pathophysiological changes of surrounding non-immune cells. The IL-13 receptor consists of the IL-4Ra and IL-13Ra1 subunits. IL-13 can also bind the IL-13Ra2 receptor with high affinity. IL-13 functions are mediated through the JAK/STAT signaling pathway. Human and mouse IL-13 are cross-reactive.

Length111 aaMolecular Weight12.3 kDaSourceE. coliAccession NumberP20109

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names Interleukin-13, interleukin 13, IL13, IL 13

Biological Activity Mouse IL-13 is fully biologically active when compared to standard. The activity is determined by the ability to

induce TF-1 cells proliferation and it is typically less than 10 ng/ml. This corresponds to an expected specific

activity of 1 x 105 units/mg.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

AA Sequence MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN

AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F

Preparation and Storage

Reconstitution Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the

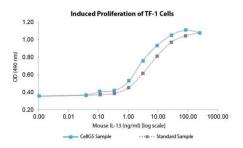
vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 20 mM HCl at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

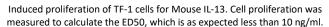
Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

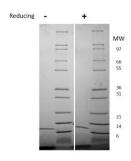
1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Mouse IL-13 has a predicted Mw of 12.3 kDa.