

IL-22 Protein, Mouse, Recombinant (His & Avi), Biotinylated

General Information

Synonyms: IL-22; Cytokine Zcyto18; IL-TIF; Interleukin-22; TIFIL-23; IL-D110; TIFa; ZCYTO18

Protein Construction: Leu34-Val179

Species: Mouse

Expression Host: E. coli

Accession: Q9JJY9

Molecular Weight: 19.7 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity: 1. Immobilized Biotinylated Mouse IL-22, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Mouse IL-22R alpha 1, hFc Tag with the EC50 of 6.2ng/ml determined by ELISA.
2. Rat IL-22R alpha 1, His Tag immobilized on CM5 Chip can bind Biotinylated Mouse IL-22, His Tag with an affinity constant of 0.145 µM as determined in SPR assay.

Purity: > 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Supplied as 0.22 µm filtered solution in 50 mM Na₂CO₃/NaHCO₃, 500 mM NaCl (pH 10.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The cytokine interleukin-22 (IL-22) is a critical regulator of epithelial homeostasis. It has been implicated in multiple aspects of epithelial barrier function, including regulation of epithelial cell growth and permeability, production of mucus and antimicrobial proteins (AMPs), and complement production.

Reference

Keir M, et al. The role of IL-22 in intestinal health and disease. J Exp Med. 2020 Feb 13;217(3):e20192195. doi: 10.1084/jem.20192195. PMID: 32997932; PMCID: PMC7062536.

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