
Recombinant Human IL-4 Protein

Catalog Number: [230-30273](#)

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 01/13/2025

Source

Species	Human
Accession Number	P05112
Gene Symbols	IL4
Synonyms	Interleukin 4, Lymphocyte Stimulatory Factor 1, B Cell Growth Factor 1, BCGF1, BSF1
Expressed Region	His25-Ser153

Preparation

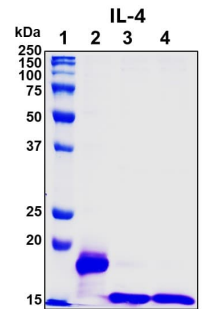
Expression System	HEK293 cells
Tag	C-terminal His-tag
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of 15 kDa. Due to the abundant glycosylation, it migrates as approximately 18 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.
Endotoxin Level	< 0.5 EU per ?g of the protein as determined by the LAL method

Specifications

Format	Liquid
Formulation	Filtered solution in 1x PBS (pH 7.4) with 20% glycerol
Concentration	Refer to the label on the vial for the specific concentration, determined by the Pierce BCA Protein Assay Kit.

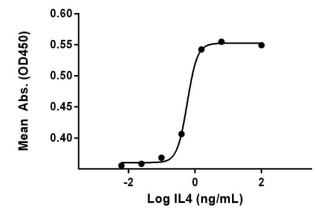
SDS-PAGE Image

Figure 1. Deglycosylation analysis of purified recombinant proteins. Product was either untreated (Lane 2) or treated with deglycosylation enzymes under native (Lane 3) or denaturing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift, indicating that the untreated protein (Lane 2) was glycosylated. Lane 1, protein ladder (kDa).



Activity

Stimulating cell growth significantly. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The EC50 for this effect is 0.58 ng/mL.



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it using the recommendations below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the liquid protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store at -20°C or -80°C in appropriate aliquots.
- Generally, the shelf life is up to 6 months from the date of receipt at -20°C or -80°C under sterile conditions.