

Recombinant Human IL12B

Source

- **Species** Human
- **Gene Symbols** IL12B
- **Accession Number** P29460
- **Expressed Region** Ile23-Ser328
- **Synonyms** IL12B, Interleukin 12B, NKSF2, Interleukin 12B (Natural Killer Cell Stimulatory Factor 2, Cytotoxic Lymphocyte Maturation Factor 2, P40), Cytotoxic Lymphocyte Maturation Factor 40 kDa Subunit.

Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- **Tag** N-terminal histidine tag
- **Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >95%
- **Endotoxin Level** <0.5 EU per µg of the protein as determined by the LAL method
- **Purity determined** By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
- **Molecular Weight** Recombinant Human IL12B has a calculated molecular mass of 37 kDa. Due to the abundant glycosylation, it migrates as approximately 35-45 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

Protein Specifications

- **Format** Lyophilized powder
- **Formulation** Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
- **Concentration** Determined by Pierce BCA protein assay
- **SDS-PAGE Image**

Figure 1. Deglycosylation of purified recombinant proteins. Purified proteins were untreated (Lane 2) or treated with Protein Deglycosylation Kit under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.

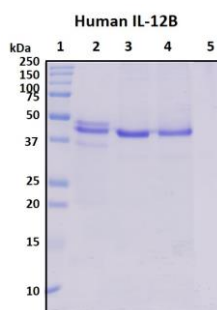
Lane 1: Protein standard ladder (kDa)

Lane 2: Untreated protein under reducing conditions

Lane 3: Treated protein with deglycosylation enzymes under native conditions

Lane 4: Treated protein with deglycosylation enzymes under reducing conditions.

Lane 5: Deglycosylation mixture only without target proteins.



Shipping

The product is shipped with ice packs

Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.

This product is furnished for **LABORATORY RESEARCH USE ONLY**.
Not for diagnostic or therapeutic use.