

## IL-4 Protein, Sheep, Recombinant (B2M & His & Myc)

### General Information

Synonyms:	IL4;Interleukin-4;Lymphocyte stimulatory factor 1;B-cell stimulatory factor 1 (BSF-1);IL-4
Protein Construction:	25-135 aa
Species:	Sheep
Expression Host:	E. coli
Accession:	P30368
Molecular Weight:	29.6 kDa (predicted)
AA Sequence:	HKCDITLEEIIKTLNILTSRKNSCMELPVADVFAAPKNATEKETFCRAGIELRRIYRSHMCLNKFLGGLDRNLSSL ASKTCSVNEAKTSTSTLRDLLERLKTIMREKYSKC

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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