

IL-31 Protein, Human, Recombinant (His)

General Information

Synonyms:	interleukin 31;IL-31
Protein Construction:	A DNA sequence encoding the human IL31 (NP_001014358.1) (Met1-Thr164) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ser 24
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6EBC2
Molecular Weight:	17.3 kDa (predicted); 31.8 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Measured by its ability to induce STAT3 activation in U-87 cells. The ED50 for this effect is 11-45 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstituted with sterile deionized water to 0.15 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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