

IL-15 & IL-15RA Protein, Mouse, Recombinant (His)

General Information

Protein Construction:	A DNA sequence encoding the mouse IL15 (P48346-1)(Met1-Ser162) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the mouse IL15RA (Q60819-1) (Met1-Lys205) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the IL15 & IL15RA heterodimer was purified. Predicted N terminal: Asn 49 & Gly 33
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P48346-1 & Q60819-1
Molecular Weight:	34.46 kDa (predicted); 50.02, 23.49, 21.78 and 19.76 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
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 0.25 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.

Protein Background

IL-15 and IL-15 receptor alpha (IL-15Rα) play a significant role in multiple aspects of T cell biology. Interleukin (IL) -15 is essential for natural killer (NK), NKT and memory (m) CD8+ T cell development and function, and is currently under investigation as an immunotherapeutic agent for the treatment of cancer. Recently, the creation of IL-15

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superagonist by complexing IL-15 and its high affinity receptor alpha (IL-15 R α) in solution, inspired by the natural trans-presentation of IL-15, advances the potential of IL-15-based tumor immunotherapy. Gene therapy using engineered cells co-expressing IL-15/IL-15 R α complex for cancer treatment is also emerging.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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