



Mouse IL-15/IL-15R Complex Recombinant Protein, eBioscience™

Product Details	
Size	25 μg
Species	Mouse
Amino acid sequence	N-terminal his-tagged mIL-15Ra, amino acids Gly33-Ala132 (Accession # NP_032384)-GS linker-mIL-15, amino acids Asn49-Ser162 (Accession # NP_032383)
Tag	His-tag
Molecular weight	29.4 kDa
Class	Recombinant
Туре	Protein
Purity	>90% by SDS-PAGE
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 < 4 ng/mL; determined by dose-dependent proliferation of CTLL-2 cells.
Conjugate	Unconjugated
Form	Liquid
Concentration	0.1 mg/mL
Storage conditions	-80°C

Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	5 Publications

Product Specific Information

Description: This recombinant protein is the heterocomplex of the mouse IL-15 linked to soluble IL-15 receptor alpha chain (sushi domain) via a GS linker.

Interleukin 15 (IL-15) is a cytokine that stimulates T and NK cell proliferation and differentiation. IL-15 regulates macrophage proinflammatory and chemotactic protein production. In addition, it induces differentiation of monocytes towards dendritic cells. The receptor for IL-15 is a high affinity heterotrimeric receptor composed of IL-15Ralpha and 2 additional subunits of the IL-2 receptor (beta and gamma). Upon activation, the receptor complex signals via the Stat and JAK pathways.

It has been reported that the soluble form of IL-15Ralpha corresponding to the entire extracellular domain, cleaved by MMP's, behaves as a high affinity IL-15 antagonist, whereas the recombinant extracellular domain comprised of the sushi domain together with the ligand, IL-15, behaves as a potent agonist by enhancing binding of IL-15 to the receptor complex. In fact, this receptor-ligand complex has approximately 10-100 fold increased proliferative activity.

Applications Reported: Recombinant mouse IL-15/IL-15RA complex is biologically active.

Applications Tested: The ED50 of this protein, as measured by CTLL-2 cell proliferation assay, is less than or equal to 4 ng /mL. This corresponds to a specific activity of greater than or equal to 2.5 x 10e5 Units/mg.

Source: Insect cell expressed N-terminal His-Tagged mIL-15Ra Gly33-Ala132 accession # NP_032384-GS linker-mIL-15 Asn49-Ser162 accession # NP_032383.

Bioactivity: The ED50 of this protein, as measured by CTLL-2 cell proliferation assay, is less than or equal to 4 ng/mL. This corresponds to a specific activity of greater than or equal to 2.5 x 10e5 Units/mg.

Endotoxin: Less than 0.1 ng/ug cytokine as determined by the LAL assay. Purity: >98% as determined by SDS-PAGE.

Molecular Weight: 29.4 kDa.

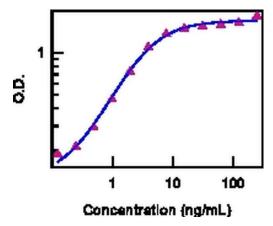
Storage and handling: For best recovery, quick-spin vial prior to opening. Use in a sterile environment.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Mouse IL-15/IL-15R Complex Recombinant Protein, eBioscience™



Mouse IL-15/IL-15R Complex Protein (14-8152-80) in FN
Proliferation of CTLL-2 cells in response to Mouse IL-15/IL-15R Complex
Recombinant Protein.

□ 5 References

Miscellaneous PubMed (5)

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Group 1 Innate Lymphoid Cell Lineage Identity Is Determined by a cis-Regulatory Element Marked by a Long Non-coding RNA.

Authors: Mowel WK,McCright SJ,Kotzin JJ,Collet MA,Uyar A,Chen X,DeLaney A,Spencer SP,Virtue AT,Yang E, Villarino A,Kurachi M,Dunagin MC,Pritchard GH,Stein J,Hughes C,Fonseca-Pereira D,Veiga-Fernandes H,Raj A, Kambayashi T,Brodsky IE,O'Shea JJ,Wherry EJ,Goff LA,Rinn JL,Williams A,Flavell RA,Henao-Mejia J

Year 2017

Autophagy

Immunity

Common -chain cytokine signaling is required for macroautophagy induction during CD4+ T-cell activation.

Authors: Botbol Y,Patel B,Macian F

Year 2016

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