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Recombinant human IL-15 protein (Qk097)



Type: Stem cells

Available for purchase: Unit size (µg): 25, 50, 100, 500, 1000

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Product Information

Interleukin-15 (IL-15) is a pro-inflammatory cytokine which regulates immune responses. Recombinant IL-15 promotes the growth and activation of T-cells and B cells and is essential in the development, survival and activation of NK cells. IL-15 can also promote conversion of monocytes into dendritic cells.

Qkine has optimized the IL-15 manufacture process to produce a highly bioactive protein with excellent lot-to-lot consistency for enhanced experimental reproducibility. Qkine IL-15 is a highly pure 12.9 kDa monomer, animal origin-free (AOF) and carrier-protein-free (CF).

Qkine IL-15 is also available as cell therapy grade with extended quality testing and documentation - Qk097-CTG

Alternative protein names

Interleukin 15, MGC9721, IL15, IL 15, Qk97

Molecular weight

12.9 kDa (monomer)

Protein Uniprot number

High purity human IL-15 protein (Uniprot: P40933)

Species reactivity

- human
- species similarity:
- mouse - 73%
- rat - 72%
- bovine - 78%
- porcine - 81%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Development, survival, and function of T cells
- Development and formation of NK cells
- Development and formation of B cells
- Differentiation of myeloid cells into dendritic cells
- Hematopoietic stem cell research

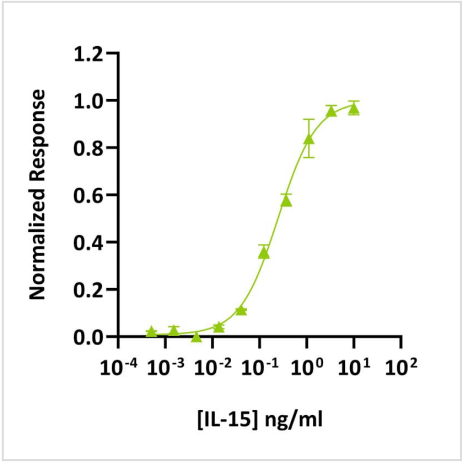
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

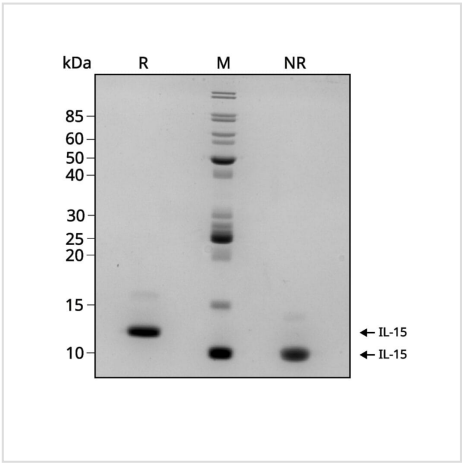
Bioactivity

Recombinant IL-15 activity was determined using a SRE luciferase reporter assay in transiently transfected HEK293 cells co-transfected with the IL-15 receptors (IL-2Rβ and IL-2Rγ). Transfected cells were treated in triplicate with a serial dilution of IL-15 for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk097 #204736. EC50 = 0.25 ng/ml (19.4 pM).



Purity

Recombinant IL-15 migrates as a band at approximately 12 kDa (monomer) in reduced (R) and 9 kDa in non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein 3 µg was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk097 lot #204728.



Original product page: https://qkine.com/product/recombinant-human-il-15-protein-qk097/

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