

Recombinant human IL-15 protein (Qk097-CTG)



Type: Cell Therapy Grade

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 cell therapy grade IL-15 is a highly pure 12.9 kDa monomer, [animal origin-free](#) (AOF) and carrier-protein-free (CF).

Qkine [cell therapy grade](#) high purity animal origin-free proteins are manufactured as GMP grade equivalents in an ISO 9001:2015-certified facility, under ISO 20399:2022 standards with GMP compliance, defined quality criteria and documentation.

Alternative protein names

Interleukin 15, MGC9721, IL15, IL 15, Qk97, Qk97-CTG, GMP IL-15

Molecular weight

12.9 kDa (monomer)

Protein Uniprot number

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

Species reactivity

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

Product Information

- Certified animal origin-free (AOF)
- Cell and gene therapy grade
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lot-to-lot consistency in bioactivity
- Full traceability and documentation
- Carrier protein-free, tag free
- Expressed in *E. coli*
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

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

Featured applications

- Immune cell therapy expansion
- CAR-T cell therapy manufacturing

Further quality assays

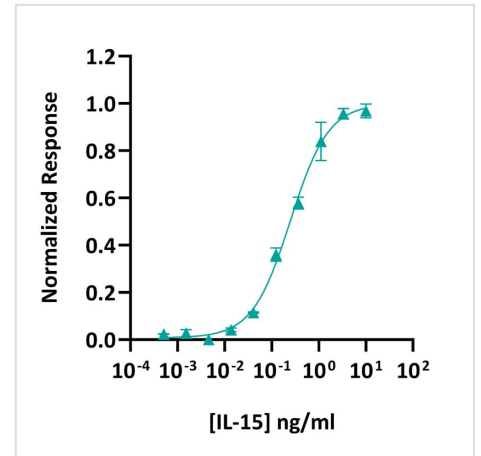
- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative
- Endotoxin: <0.05 EU/µg protein
- Residual host cell protein <10 ng/µg
- Residual host cell DNA <10 ng/µg
- N-terminal sequence analysis

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-2R β and IL-2R γ). 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 Qk095 #204736. EC₅₀ = 0.25 ng/ml (19.4 pM).

The specific activity of cell therapy grade IL-15 is $>1.5 \times 10^7$ IU/mg, which is calibrated against the human IL-15 standard (NIBSC code: 95/554).



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 μ g 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://ryan.calliope-alpha.ts.net/product/recombinant-human-il-15-protein-qk097-ctg/>

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