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Recombinant Rat Interleukin-15 rrIL-15

| Product | Cat# | Package size |
|--------------------------------|------------|--------------|
| Recombinant Rat Interleukin-15 | C6078.0002 | 2µg |
| Recombinant Rat Interleukin-15 | C6078.0010 | 10µg |
| Recombinant Rat Interleukin-15 | C6078.1000 | 1mg |

Product description

The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Two alternatively spliced transcript variants of this gene encoding the same protein have been reported.

Recombinant Interleukin-15 Rat produced in *E.coli* is a single, non-glycosylated polypeptide chain of 115 amino acids and a molecular mass of 13533 Dalton.

Synonyms:

IL-15, MGC9721.

Source: *E. coli*

Biological activity

The ED50 as determined by the dose-dependent stimulation of the proliferation of CTLL-2 was found to be <10ng/mL, corresponding to a Specific Activity of 100,000IU/mg.

Purity: >98% determined by SDS-PAGE (silver stained)

Amino acid sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asn-Trp-Ile-Asp.

Formulation

The sterile filtered solution was lyophilised from water (1mg/mL) containing no additives.

Stability

The lyophilized protein is stable for a few weeks at room temperature, but best stored desiccated at -20°C. Reconstituted rriL-13 should be stored at 4°C between 2 -7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thawing cycles.

Reconstitution

We recommend to reconstitute the lyophilised rriL-15 in sterile 18MΩ/cm water not less than 100µg/mL, which can then be further diluted to other aqueous solutions. This solution can then be stored at 4°C for 1 week or -20°C for future use.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical