

# Recombinant Bovine Interleukin 21

**Cat. No.** IL21-238B    **Lot. No.** (See product label)

## SPECIFICATION

|                                        |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>                | Recombinant Bovine IL-21 was expressed in Yeast. MW= 15.1 kDa (129 aa).                                                                                                                                                                                                                                                                                       |
| <b>Species</b>                         | Bovine                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                          | Yeast                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>                     | Interleukin-21 is a protein that in humans is encoded by the IL21 gene. Interleukin 21 is a cytokine that has potent regulatory effects on cells of the immune system, including natural killer (NK) cells and cytotoxic T cells that can destroy virally infected or cancerous cells. This cytokine induces cell division/proliferation in its target cells. |
| <b>Formulation/<br/>Reconstitution</b> | Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.                                                                                                                                                                                                                                                    |
| <b>Purification</b>                    | Ion-exchange chromatography.                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                          | >95% as visualized by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                      |
| <b>Amino Acid<br/>Sequence</b>         | HKSSSQGQDR LFIRLRQLID IVDQLKNYVN DLDPEFLPAP EDVKRHCERS<br>AFSCFQKVQL KSANNGDNEK IINILTKQLK RKL PATNTGR RQKHEVTCPS<br>CDSYEKKPPK EYLERLKSLI QKMIHQHLS.                                                                                                                                                                                                         |
| <b>Bioactivity</b>                     | In testing.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Stability And Storage</b>           | Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3                                                                                                                                                                                                                                                                           |

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months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** IL21 interleukin 21 [ Bos taurus ]

**Synonyms** interleukin 21; IL21; interleukin-21; IL-21

**Gene ID** 378475

**mRNA Refseq** NM\_198832.1

**Protein Refseq** NP\_942129.1

**UniProt ID** Q76LU5

**Chromosome Location** 17

**Pathway** Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

**Function** cytokine activity; interleukin-2 receptor binding

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