

**DESCRIPTION**

**Source** *E. coli*-derived human IL-21 protein  
Gln32-Ser162 with a N-terminal Met  
Accession # Q9HBE4.3

**N-terminal Sequence Analysis** Met

**Predicted Molecular Mass** 15 kDa

**SPECIFICATIONS**

**SDS-PAGE** 15-17 kDa, under reducing conditions.

**Activity** Measured in a cell proliferation assay using B9 mouse hybridoma cells.  
The ED<sub>50</sub> for this effect is 5.00-50.0 ng/mL.

**Endotoxin Level** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE with quantitative densitometry by Coomassie® Blue Staining.

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute the 10 µg size at 100 µg/mL in PBS. Reconstitute all other sizes at 500 µg/mL in PBS.

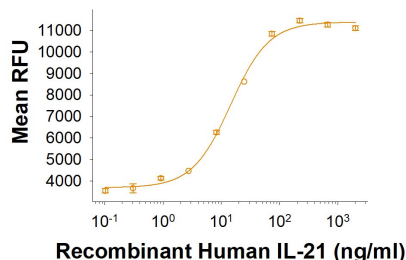
**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

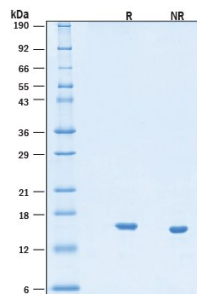
**DATA**

**Bioactivity**



**Recombinant Human IL-21 Protein Bioactivity.** Recombinant Human IL-21 induces cell proliferation of B9 mouse hybridoma cells with an ED<sub>50</sub> of 5.00-50.0 ng/mL.

**SDS-PAGE**



**Recombinant Human IL-21 Protein SDS-PAGE.** 2 µg/lane of Recombinant Human IL-21 Protein (Catalog # BT-021) was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 15-17 kDa, under reducing conditions.