

## Insulin (rHuInsulin) Active Protein | INS active protein

Recombinant Human Insulin

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA47953</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Insulin (rHuInsulin); Recombinant Human Insulin; Recombinant Human Insulin (rHuInsulin); INS active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification     | Greater than 98% by RP-HPLC and SDS-PAGE.                                                                                                                                                                                                                                                                                                                                            |
| Form/Format             | White lyophilized powder                                                                                                                                                                                                                                                                                                                                                             |
| Formulation             | Sterile-filtered, lyophilized from a 1mg/ml solution with no additives.                                                                                                                                                                                                                                                                                                              |
| Solubility              | Reconstitute in sterile 0.005N HCl to a concentration of no more than 1 mg/ml.                                                                                                                                                                                                                                                                                                       |
| Biological Activity     | 28U/mg                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage | Lyophilized Insulin is stable at room temperature for 3 weeks, but it is recommended that it is store desiccated at -20 degree C. After reconstitution, it can be stored at 4 degree C for 2-7 days but should be stored below -20 degree C after that. For long-term storage of reconstituted Insulin, it is recommended that a carrier protein (such as 0.1% HAS or BSA) is added. |

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for INS active protein | Recombinant Human Insulin produced in E. coli is a two chain, nonglycosylated polypeptide chain containing 51 amino acids with a molecular mass of 5,807 daltons. This product has full biological activity. Provided as a lyophilized powder. |
| Product Categories/Family for INS active protein   | <a href="#">Recombinant Proteins</a>                                                                                                                                                                                                           |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">386828</a>                                                                                                     |
| NCBI GeneID                      | <a href="#">3630</a>                                                                                                       |
| UniProt Accession #              | <a href="#">P01308</a> ; <a href="#">Q5EEX2</a>                                                                            |
| NCBI Official Full Name          | insulin                                                                                                                    |
| NCBI Official Synonym Full Names | insulin                                                                                                                    |
| NCBI Official Symbol             | INS                                                                                                                        |
| NCBI Official Synonym Symbols    | ILPR; IRDN; IDDM2; MODY10                                                                                                  |
| NCBI Protein Information         | insulin; proinsulin; OTTHUMP00000011161; OTTHUMP00000011162; OTTHUMP000000196036; OTTHUMP000000196038; OTTHUMP000000217519 |
| UniProt Protein Name             | Insulin                                                                                                                    |
| UniProt Gene Name                | <b>INS</b>                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/insulin-rhuinsulin/47953>