Insulin, human recombinant

CATALOG #: 4772-5 5 mg
4772-25 25 mg

SOURCE: *E. coli*

PURITY: ≥ 98% as determined by SDS-PAGE and HPLC

ENDOTOXIN: Less than 0.1 ng/mg of Insulin

PHYSICAL APPEARANCE: Lyophilized powder

RECONSTITUTION:
Centrifuge the vial prior to opening. Reconstitute in 0.01 N HCl. The solution can then be diluted to other aqueous buffers.

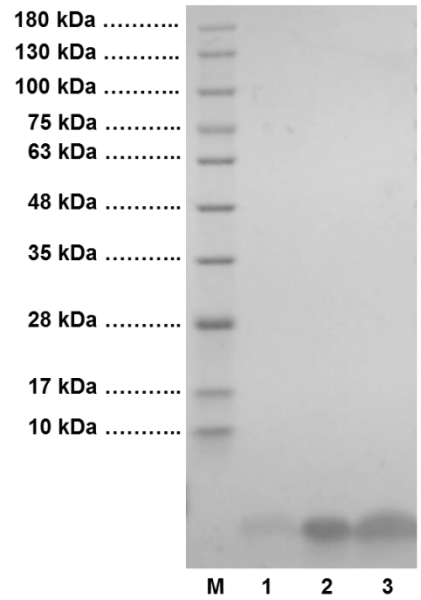
STORAGE CONDITIONS:
Lyophilized Insulin should be stored desiccated below 0˚C. Upon reconstitution rh Insulin should be stored at 4˚C for 2-7 days. For long-term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store aliquots at –20˚C or –70˚C. Avoid freeze-thaw cycles.

DESCRIPTION:
Recombinant Human Insulin produced in *E. coli* is a two chain, non-glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5.81 kDa. Recombinant Insulin is purified by proprietary chromatographic techniques.

ACTIVITY:
The recombinant Insulin is fully biologically active when compared to World Health Organization (WHO) reference standard which is 28 units/mg.

AMINO ACID SEQUENCE:
GIVEQCCTSIC SLYQLENYCN FVNQHL CGSHLVEALY LVCGERGFFY TPKT

FOR RESEARCH USE ONLY! Not to be used on humans.



4-20% SDS-PAGE of human Insulin:
M: Protein Marker
1: 2 µg Human Insulin
2: 5 µg Human Insulin
3: 10 µg Human Insulin

4-20% SDS-PAGE of human Insulin: 2, 5 and 10 ug of human recombinant insulin loaded in each lane under reducing conditions and stained with Coomassie Blue. Human recombinant insulin has a predicted MW of 5.81 kDa.

RELATED PRODUCTS:

- Insulin, human recombinant (Yeast) **(Cat. No. 4773-5, -25)**
- Insulin (human) ELISA Kit **(Cat. No. K4742-100)**
- Insulin Antibody **(Cat. No. 5772-100)**