Product Datasheet

Recombinant Human Insulin Protein
NBP1-99193

Unit Size: 5 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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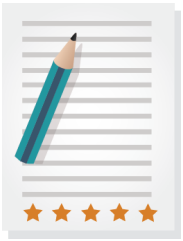
Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-99193

Updated 6/8/2023 v.20.1



NBP1-99193

Recombinant Human Insulin Protein

Product Information

Unit Size	5 mg
Concentration	Lyoph
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Reconstitution Instructions	Reconstitute in 5-10 mM HCl to 1mg/mL. Upon reconstitution rh Insulin should be stored at 4C 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 -20C or -70C. Avoid freeze-thaw cycles.
Purity	>98%
Buffer	Lyophilized
Target Molecular Weight	5.81 kDa

Product Description

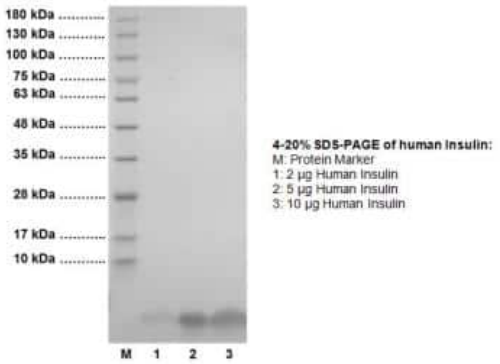
Description	Recombinant bioactive protein containing 51 amino acids for Human Insulin **Source:***E. coli* ***Amino Acid Sequence:GIVEQCCTSIC SLYQLENYCN FVNQHL CGSHLVEALY LVCGERGFFY TPKT***
Gene ID	3630
Gene Symbol	INS
Species	Human
Preparation Method	Determined to be >98% pure by SDS-PAGE
Details of Functionality	The recombinant insulin is fully biologically active when compared to World Health Organization (WHO) reference standard which is 28 units/mg.
Endotoxin Note	<0.1 ng/ug

Product Application Details

Applications	Western Blot, SDS-Page, Bioactivity
Recommended Dilutions	Western Blot, SDS-Page, Bioactivity
Application Notes	Use in WB reported in scientific literature (PMID: 32433667).

Images

SDS-Page: Recombinant Human Insulin Protein [NBP1-99193] - 2, 5 and 10 ug of human recombinant insulin loaded in each lane under reducing conditions and stained with Comasie blue. Human recombinant insulin has predicted MW of 5.81 KDa.



Publications

Viviano J, Brecker M, Ferrara-Cook C et al. ERp29 as a regulator of Insulin biosynthesis PLoS ONE 2020-05-20 [PMID: 32433667] (WB, Human)

Gonzalez-Magaldi M, McCabe J, Cartwright H et al. Receptor Tyrosine Kinases Require a Signal in Addition to Dimerization to Trigger Pathway Activation SSRN Journal 2020-01-10 [PMID: 31402911]

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Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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