

# Product Datasheet

## Recombinant Human Sorbitol Dehydrogenase His Protein NBP1-44460

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-44460****Recombinant Human Sorbitol Dehydrogenase His Protein**

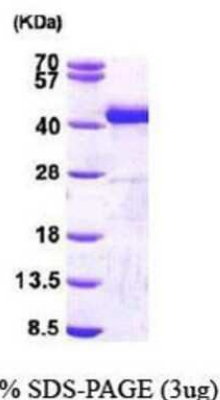
| Product Information     |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| Unit Size               | 0.1 mg                                                                                 |
| Concentration           | 0.5 mg/ml                                                                              |
| Storage                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Preservative            | No Preservative                                                                        |
| Purity                  | >90%, by SDS-PAGE                                                                      |
| Buffer                  | 20 mM Tris-HCl buffer (pH8.0), 0.2 M NaCl, 5mM DTT, 20% glycerol                       |
| Target Molecular Weight | 40.4 kDa                                                                               |

| Product Description      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description              | <p>A bioactive recombinant protein with a N-Terminal His-tag and corresponding to the amino acids 1-357 of Human Sorbitol Dehydrogenase</p> <p><b>Source:</b> <i>E.coli</i></p> <p><b>Amino Acid Sequence:</b> MGSSHHHHHH SSGLVPRGSH MAAAKPNNL SLVHGPGL RLENYPIPEP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTLL VAKAMGAAQV VVTDLSATRL SKAKEIGADL VLQISKESPQ EIARKVEGQL GCKPEVTIEC TGAEASIQAG IYATRSGGTL VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP</p> |
| Gene ID                  | 6652                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Symbol              | SORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Species                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Details of Functionality | Specific activity is > 20,000 pmol/min/ug, and is defined as the amount of enzyme that catalyze D-fructose to D-sorbitol per minute at pH 7.5 at 37C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Product Application Details |                           |
|-----------------------------|---------------------------|
| Applications                | SDS-Page, Enzyme Activity |
| Recommended Dilutions       | SDS-Page, Enzyme Activity |

**Images**

SDS-Page: Sorbitol Dehydrogenase Protein [NBP1-44460] - SORD, 40.4 kDa (377aa) confirmed by MALDI-TOF with a purity of 90% by SDS - PAGE





## Procedures

### SDS-Page protocol for Sorbitol Dehydrogenase Recombinant Protein (NBP1-44460)

SDS-PAGE (NBP1-44460):

1. Prepare a 1.5 ml assay buffer. The final concentrations are 78 mM Triethanolamine, 183 mM D-Fructose, 0.2 mM beta-nicotinamide dinucleotide and 0.003 % (w/v) bovine serum albumin. <p/>
2. Add 50 ul of recombinant SORD protein in various concentrations (1 ug, 2 ug, 5 ug) in assay buffer. <p/>
3. Mix by inversion and record the decrease at A340nm for 5 minutes.





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### **Products Related to NBP1-44460**

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|                   |                                                  |
|-------------------|--------------------------------------------------|
| NBP2-52293-0.01mg | Recombinant Human Sorbitol Dehydrogenase Protein |
| MAB1455           | Albumin Antibody (188835) [Unconjugated] - Serum |
| NBP1-87416        | Sorbitol Dehydrogenase Antibody                  |
| AF262             | Amphiregulin Antibody                            |

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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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