

Product Datasheet

Recombinant Human Catalase His Protein NBP1-98907-100ug

Unit Size: 100 ug

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

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NBP1-98907-100ug

Recombinant Human Catalase His Protein

Product Information	
Unit Size	100 ug
Concentration	1 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 (pH 8.0), 0.15 M NaCl, 10% glycerol
Target Molecular Weight	61.9 kDa

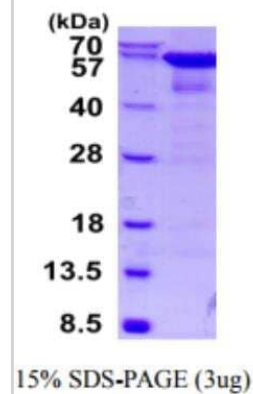
Product Description	
Description	<p>A bioactive recombinant protein with a N-Terminal His-tag and corresponding to the amino acids 1-527 of Human Catalase</p> <p>Source: <i>E.coli</i></p> <p>Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MADSRDPASD QMQHWKEQRA A QKADVLTTG AGNPVGD KLN VITVGPRGPL LVQDVVFTDE MAHFDRERIP ERVVHAKGAG AFGYFEVTHD ITKYSKAKVF EHIGKKTPIA VRFSTVAGES GSADTVRDPR GFAVKFYTED GNWDLVGNNT PIFFIRDPII FPSFIHSQKR NPQTHLKD PD MVWDFWSLRP ESLHQVSFLF SDRGIPDGHR HMNGYGSHTF KLVNANGEAV YCKFHYKTDQ GIKNLSVEDA ARLSQEDPDY GIRDLFNAIA TGKYPSTWTFY IQVMTFNQAE TFPFNPFDLT KVWPHKDYPL IPVGKLV LNR NPVNYFAEVE QIAFDPSNMP PGIEASPKM LQGRLFAYPD THRHR LGPNY LHIPVNCPYR ARVANYQRDG PMCMQDNQGG APNYYPNSFG APEQQPSALE HSIQYSGEVR RFNTANDDNV TQVRAFVNV LNEEQRKRLC ENIAGHLKDA QIFIQKKAVK NFTEVHPDYG SHIQALLDKY NAEKPKNAIH TFVQSGSHLA AREKANL</p>
Gene ID	847
Gene Symbol	CAT
Species	Human
Details of Functionality	Specific activity is > 100,000 units/mg. One unit will decompose 1.0umole of H ₂ O ₂ per minute at pH 8.0 at 25C.

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



Images

Recombinant Human Catalase Protein [NBP1-98907]



Publications

Jinjie Duan, Wenhui Dong, Guangyan Wang, Wenjing Xiu, Guangyin Pu, Jingwen Xu, Chenji Ye, Xu Zhang, Yi Zhu, Chunjiang Wang Senescence-associated 13-HODE production promotes age-related liver steatosis by directly inhibiting catalase activity Nature Communications 2023-12-09 [PMID: 38071367]

Procedures

SDS-Page protocol for Catalase Recombinant Protein (NBP1-98907)

SDS-PAGE (NBP1-98907):

1. Prepare an assay buffer with the following concentrations: 50 mM Potassium Phosphate (pH 8.0) and 0.15 % H₂O₂. <p/>
2. Load 150ul assay buffer into each well <p/>
3. Add 50ul of recombinant CAT protein with 0.25ug, 0.125ug to each well. <p/>
4. Record the decrease in A_{260nm} for 5 minutes at 25C using UV plate.





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Products Related to NBP1-98907-100ug

NBP2-38772PEP	Catalase Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]
AF3398	Catalase Antibody [Unconjugated]
AF3667	Myeloperoxidase/MPO Antibody [Unconjugated]

Limitations

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