

Catalase, human recombinant protein**CAT****Catalog # PBV10985r****Specification****Catalase, human recombinant protein - Product info**

Primary Accession

[P04040](#)

Concentration

1

Calculated MW

61.9 kDa (547 aa, 1-527 aa + His Tag). KDa**Catalase, human recombinant protein - Additional Info**

Gene ID

847

Gene Symbol

CAT**Other Names****CAT**

Gene Source

Human

Source

E. coli

Assay&Purity

SDS-PAGE; ≥90%

Assay2&Purity2

N/A;

Recombinant

Yes

Sequence

**MGSSHHHHHH SSGLVPRGSH MADSRDPASD
QMQRHWKEQRA AQKADVLTTG AGNPVGDKLN
VITVGPRGPL LVQDVVFTDE MAHFDREIRIP
ERVVHAKGAG AFGYFEVTHD ITKYSKAKVF
EHIGKKTPIA VRFSTVAGES GSADTVRDPR
GFAVKFYTED GNWDLVGNNT PIFFIRDPIIL
FPSFIHSQKR NPQTHLKDPD MVWDFWSLRP
ESLHQVSFLF SDRGIPDGHR HMNGYGSHTF
KLVNANGEAV YCKFHYKTDQ GIKNLSVEDA
ARLSQEDPDY GIRDLFNAIA TGKYPSTWTFY
IQVMTFNQAE TFPFNPFDLT KVVPHKDYPL
IPVGKLVNLR NPVNYFAEVE QIAFDPSNMP
PGIEASPDKM LQGRLFAYPD THRHRLGPNY
LHIPVNCPYR ARVANYQRDG PMCMQDNQGG
APNYYPNSFG APEQQPSALE HSIQYSGEVR
RFNTANDDNV TQVRAFVNV LNEEQRKRLC
ENIAGHLKDA QIFIQKKAVK NFTEVHPDYG
SHIQALLDKY NAEKPKNAIH TFVQSGSHLA
AREKANL****Target/Specificity****Catalase****Format****Liquid****Storage****-80°C; 1 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.15 M NaCl and 10% glycerol.**

Catalase, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Catalase, human recombinant protein - Images

Catalase, human recombinant protein - Background

CAT is a key antioxidant enzyme in the bodies' defense against oxidative stress. Also, it is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. CAT converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Recombinant human CAT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Catalase, human recombinant protein - References

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