

**RPC418Hu02 100µg**

**Recombinant Catalase (CAT)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

10th Edition (Revised in Jan, 2014)

## **[ PROPERTIES ]**

**Residues:** Asp10~Asn507

**Tags:** N-terminal His-Tag

**Accession:** P04040

**Host:** *E. coli*

**Subcellular Location:** Peroxisome.

**Purity:** >95%

**Endotoxin Level:** <1.0EU per 1µg

(determined by the LAL method).

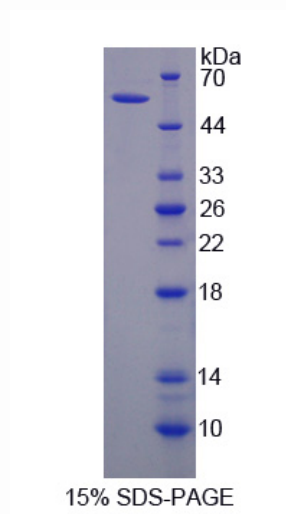
**Formulation:** Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

**Predicted isoelectric point:** 7.0

**Predicted Molecular Mass:** 58.9kDa

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)



## **[ USAGE ]**

Reconstitute in sterile PBS, pH7.2-pH7.4.

## **[ STORAGE AND STABILITY ]**

**Storage: Avoid repeated freeze/thaw cycles.**

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## **[ SEQUENCES ]**

The sequence of the target protein is listed below.

D QMQHWKEQRA A QKADVLTTG AGNPVGDKLN VITVGRGPL LVQDVVFTDE  
MAHFD RERIP ERVHAKGAG AFGYFEVTHD ITKYSKAKVF EHIGKKTPIA VRFSTVAGES  
GSADTVRDPR GFAVKFYTED GNWDLVGNNT PIFFIRDPII FPSFIHSQKR NPQTHLKDPD  
MVWDFWSLRP ESLHQVSFLF SDRGIPDGHR HMNGYGSHTF KLVNANGEAV  
YCKFHYKTDQ GIKNLSVEDA ARLSQEDPDY GIRDLFNAIA TGKYP SWTFY IQVMTFNQAE  
TFPFNPFDLT KVWPHKDYPL IPVGKLV LNR NPVNYFAEVE QIAFDPSNMP PGIEASPKM  
LQGR LFAYPD THRHRLGPNY LHIPVNC PYR ARVANYQRDG PMCMQDNQGG  
APNYYPNSFG APEQQPSALE HSIQYSGEVR RFNTANDDNV TQVRAFVNV LNEEQRKRLC  
ENIAGHLKDA QIFIQKKA VK NFTEVHPDYG SHIQALLDKY NAEKPKN

## **[ REFERENCES ]**

1. Quan F., *et al.* (1986) *Nucleic Acids Res.* 14:5321-5335.
2. Bell G.I., *et al.* (1986) *Nucleic Acids Res.* 14:5561-5562.
3. Jin L.H., *et al.* (2001) *Free Radic. Biol. Med.* 31:1509-1519.
4. Ota T., *et al.* (2004) *Nat. Genet.* 36:40-45.