

Recombinant Human Catalase protein ab172164

Description	
Product name	Recombinant Human Catalase protein
Purity	> 95 % SDS-PAGE. Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin level	< 0.100 Eu/µg
Expression system	Escherichia coli
Accession	<u>P04040</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MADSRDPASDQMQRHWKEQRAAQKADVLTTGAGNPVGD KLNVITVGPRGPL LVQDVVFTDEMAHFDRERIPERVVHAKGAGAFGYFEVTH DITKYSKAKVF EHIGKKTPIAVRFSTVAGESGSADTVRDPR GFAVKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSQKRNP QTHLKDPD MVWDFWSLRPESLHQVSFLFSDRGIPDGHRHMNGYGSH TFKLVNANGEAV YCKFHYKTDQGIGNLSVEDAARLSQEDPDYGIRDLFNAIAT GKYPSWTFY IQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVLR NPVNYFAEVE QIAFDPSNMPPGIEASPDKMLQGRLFAYPDTHRHLGPNY LHIPVNCPYR ARVANYQRDGPMMQDNQGGAPNYYPNSFGAPEQQPS ALEHSIQYSGEVR RFNTANDDNVTQVRAFYNVLNEEQRKRLCENIAGHLKDA QIFIQKKAVK NFTEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHLAA REKANL
Predicted molecular weight	60 kDa
Amino acids	2 to 527

Specifications

Our **Abpromise guarantee** covers the use of **ab172164** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE HPLC
<b>Form</b>	Liquid

## Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  pH: 7.40 Constituent: 100% PBS  Supplied as a 0.2 µM filtered solution
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## General Info

<b>Function</b>	Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.
<b>Involvement in disease</b>	Defects in CAT are the cause of acatalasia (ACATLAS) [MIM:115500]; also known as acatalasemia. This disease is characterized by absence of catalase activity in red cells and is often associated with ulcerating oral lesions.
<b>Sequence similarities</b>	Belongs to the catalase family.
<b>Post-translational modifications</b>	The N-terminus is blocked.
<b>Cellular localization</b>	Peroxisome.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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