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Datasheet for ABIN1691877  
**Catalase Protein (CAT) (AA 2-527)**

### Overview

Quantity:	50 µg
Target:	Catalase (CAT)
Protein Characteristics:	AA 2-527
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human Catalase/CAT
Sequence:	ADSRDPASDQ MQHWKEQRAA QKADVLTTGA GNPVGDKLVN ITVGPRGPLL VQDVVFTDEM AHFDRERIPE RVVHAKGAGA FGYFEVTHDI TKYSKAKVFE HIGKKTPIAV RFSTVAGESG SADTVRDRPG FAVKFYTEDG NWDLVGNNTN IFFIRDPILF PSFIHSQKRN PQTHLKDPDM VWDFWSLRPE SLHQVSFLFS DRGIPDGHRH MNGYGSHTFK LVNANGEAVY CKFHYKTDQG IKNLSVEDAA RLSQEDPDYG IRDLFNAIAT GKYPSTWTFYI QVMTFNQAET PPFNPFDLTK VWPHKDYPLI PVGKLVNLRN PVNYFAEVEQ IAFDPSNMPP GIEASPKML QGRLFAYPDT HRHRLGPNYL HIPVNCPYRA RVANYQRDGP MCMQDNQGGA PNYYPNSFGA PEQQPSALEH SIQYSGEVRR FNTANDDNVT QVRAFVNVN NEEQRKRLCE NIAGHLKDAQ IFIQKKAVKN FTEVHPDYGS HIQALLDKYN AEKPKNAIHT FVQSGSHLAA REKANL
Characteristics:	Recombinant Human Catalase/CAT
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

## Product Details

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Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

## Target Details

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Target: Catalase (CAT)

Alternative Name: Catalase ([CAT Products](#))

Background: Recombinant Human Catalase/CAT is produced with our E. coli expression system. The target protein is expressed with sequence (Ala2-Leu527) of Human CAT.

Catalase (CAT) is a member of the catalase family. It exists as a homotetramer that occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Catalase is localized in the peroxisome. Catalase promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells, and normal and transformed fibroblast cells. Defects in CAT are the cause of acatalasemia which is characterized by absence of catalase activity in red cells and is associated with ulcerating oral lesions.

Molecular Weight: 59.7 kDa

UniProt: [P04040](#)

Pathways: [Cellular Glucan Metabolic Process](#), [Cell RedoxHomeostasis](#), [Photoperiodism](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Supplied as a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: -80 °C

Storage Comment: Store at < -20°C, stable for 6 months after receipt.  
Please minimize freeze-thaw cycles.

## Handling

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Expiry Date: 6 months