

Catalase Protein, Human

Cat. No.:	HY-P7744
Synonyms:	rHuCatalase; Catalase; CAT
Species:	Human
Source:	E. coli
Accession:	P04040 (A2-L527)
Gene ID:	847
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	<pre> ADSRDPASDQ MQHWKEQRAA QKADVLT TGA GNPVGDKLN V ITVGRGPLL VQDVVFTDEM AHFDRERIPE RVVHAKGAGA FGYFEVTHDI TKYSKAKVFE HIGKKTPIAV RFSTVAGESG SADTVRDRPG FAVKFYTEDG NWDLVGNNTP IFFIRDPILF PSFIHSQKRN PQTHLKDPDM VWDFWSLRPE SLHQVSFLFS DRGIPDGHRH MNGYGSHTFK LVNANGEAVY CKFHYKTDQG IKNLSVEDAA RLSQEDPDYG IRDLFNAIAT GKYPSTWTFYI QVMTFNFQAET FPFNPFDLTK VWPHKDYPLI PVGKLV LNRN PVNYFAEVEQ IAFDPSNMPP GIEASPKML QGRLFAYPDT HRHRLGPNYL HIPVNCPYRA RVANYQRDGP MCMQDNQGGA PNYYPN SFGA PEQQPSALEH SIQYSGEVRR FNTANDDNVT QVRAFYVNVL NEEQRKRLCE NIAGHLKDAQ IFIQKKAVKN FTEVHPDYG S HIQALLDKYN AEKPKNAIHT FVQSGSHLAA REKANL </pre>
Biological Activity	Data is not available.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filter solution of PBS, PH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Catalase is a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide^{[1][2]}.

REFERENCES

[1]. Christophe Glorieux, et al. Catalase, a remarkable enzyme: targeting the oldest antioxidant enzyme to find a new cancer treatment approach. Biol Chem. 2017 Sep 26;398(10):1095-1108.

[2]. Diane E Heck, et al. Mechanisms of oxidant generation by catalase. Ann N Y Acad Sci. 2010 Aug;1203:120-5.

Caution: Product has not been fully validated for medical applications. For research use only.

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