

Catalase Protein, Human (solution)

Cat. No.:	HY-P7744Y
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> A D S R D P A S D Q M Q H W K E Q R A A Q K A D V L T T G A G N P V G D K L N V I T V G P R G P L L V Q D V V F T D E M A H F D R E R I P E R V V H A K G A G A F G Y F E V T H D I T K Y S K A K V F E H I G K K T P I A V R F S T V A G E S G S A D T V R D P R G F A V K F Y T E D G N W D L V G N N T P I F F I R D P I L F P S F I H S Q K R N P Q T H L K D P D M V W D F W S L R P E S L H Q V S F L F S D R G I P D G H R H M N G Y G S H T F K L V N A N G E A V Y C K F H Y K T D Q G I K N L S V E D A A R L S Q E D P D Y G I R D L F N A I A T G K Y P S W T F Y I Q V M T F N Q A E T F P F N P F D L T K V W P H K D Y P L I P V G K L V L N R N P V N Y F A E V E Q I A F D P S N M P P G I E A S P D K M L Q G R L F A Y P D T H R H R L G P N Y L H I P V N C P Y R A R V A N Y Q R D G P M C M Q D N Q G G A P N Y Y P N S F G A P E Q Q P S A L E H S I Q Y S G E V R R F N T A N D D N V T Q V R A F Y V N V L N E E Q R K R L C E N I A G H L K D A Q I F I Q K K A V K N F T E V H P D Y G S H I Q A L L D K Y N A E K P K N A I H T F V Q S G S H L A A R E K A N L </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
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 for 1 year. 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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