

Native Human Catalase Protein

Cat. No. CAT-21H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Erythrocyte
Form	Frozen in 50 mM Tris-HCl, pH 8.0.
Purity	>95% pure by SDS-PAGE
Unit Definition	One unit is equal to the amount of enzyme that will decompose one micromole of hydrogen peroxide per minute at 25°C, pH 7.0.
Enzyme Unit	>50,000 units per mg protein.
Usage	This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.
Storage	Store at -80°C. Avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	CAT catalase [Homo sapiens]
Official Symbol	CAT

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Synonyms	CAT; catalase; MGC138422; MGC138424;
Gene ID	847
mRNA Refseq	NM_001752
Protein Refseq	NP_001743
MIM	115500
UniProt ID	P04040
Chromosome Location	11p13
Pathway	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Folate Metabolism, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	NADP binding; aminoacylase activity; catalase activity; catalase activity; heme binding; metal ion binding; oxidoreductase activity, acting on peroxide as acceptor; protein homodimerization activity;