

Native Human Catalase

Cat. No. CAT-75H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Erythrocyte
Description	Composed of four identical subunits each with a molecular weight of 59,700. Catalyzes the reaction $2H_2O_2 \rightarrow H_2O + O_2$. Catalase, along with the superoxides dismutase and glutathione peroxidase, controls the levels of oxygen-derived free radicals in mammalian cells, and together may function as a somatic oxidant defense.
Form	Liquid
Molecular Mass	244.0 kDa
Purity	Purity by SDS-PAGE: $\geq 95\%$
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage	-70°C
Storage Buffer	Frozen in 50 mM Tris-HCl, pH 8.0
Shipping	Dry Ice

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GENE INFORMATION

Gene Name	CAT catalase [Homo sapiens]
Official Symbol	CAT
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;

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