

## Product datasheet for TP720852

1581

## Catalase (CAT) (NM\_001752) Human Recombinant Protein

## **Product data:**

**RefSeq ORF:** 

## **Product Type: Recombinant Proteins Description:** Purified recombinant protein of Human catalase (CAT) Species: Human **Expression Host:** E. coli **Expression cDNA Clone** Ala2-Leu527 or AA Sequence: Tag Free Tag: Predicted MW: 59.7 kDa **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Supplied as a 0.2 um filtered solution of PBS, pH 7.4. Endotoxin: Endotoxin level is < 0.1 ng/ $\mu$ g of protein (< 1 EU/ $\mu$ g) Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles. Storage: Stable for at least 3 months from date of receipt under proper storage and handling Stability: conditions. NP 001743 RefSeq: Locus ID: 847 UniProt ID: P04040 **RefSeq Size:** 2300 Cytogenetics: 11p13

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	Catalase (CAT) (NM_001752) Human Recombinant Protein – TP720852
Summary:	This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene. [provided by RefSeq, Oct 2009]
Protein Families:	Druggable Genome
Protein Pathway	<b>s:</b> Amyotrophic lateral sclerosis (ALS), Metabolic pathways, Methane metabolism, Tryptophan metabolism

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