

## Recombinant Human CAT Protein (Met1-Leu527), His tagged

Cat. No. CAT-0865H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CAT (Met1-Leu527) fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Leu527
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized powder/frozen liquid
<b>Molecular Mass</b>	58.92 kDa
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Notes</b>	For research use only.

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<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	CAT catalase [ Homo sapiens (human) ]
<b>Official Symbol</b>	CAT
<b>Synonyms</b>	CAT; catalase; MGC138422; MGC138424;
<b>Gene ID</b>	847
<b>mRNA Refseq</b>	NM_001752
<b>Protein Refseq</b>	NP_001743
<b>MIM</b>	115500
<b>UniProt ID</b>	P04040

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