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

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

SPECIFICATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	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.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

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

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