

Recombinant Mouse Cat Protein, His-tagged

Cat. No. Cat-632M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cat Protein (Ser2-Leu527) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser2-Leu527
Description	Enables aminoacylase activity and catalase activity. Acts upstream of or within several processes, including hydrogen peroxide catabolic process; positive regulation of phosphatidylinositol 3-kinase signaling; and regulation of DNA-binding transcription factor activity. Located in peroxisomal membrane. Is expressed in several structures, including alimentary system; early conceptus; heart; nervous system; and sensory organ. Human ortholog(s) of this gene implicated in several diseases, including acatalasia; eye disease (multiple); lung disease (multiple); osteonecrosis; and pseudoxanthoma elasticum. Orthologous to human CAT (catalase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 63.4 kDa; Accurate Molecular Mass: 42&63 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

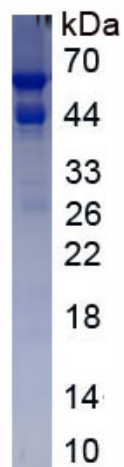
GENE INFORMATION

Gene Name	Cat catalase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cat
Synonyms	CAT; catalase; catalase 1; Cas1; Cs-1; Cas-1; 2210418N07;
Gene ID	12359
mRNA Refseq	NM_009804
Protein Refseq	NP_033934
UniProt ID	P24270

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