

Recombinant Rat Sod2, His-tagged

Cat. No. Sod2-34R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Sod2, fused with His tag, was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Superoxide dismutase (SOD) is an endogenously produced intracellular enzyme present in almost every cell in the body (3). It works by catalyzing the dismutation of the superoxide radical O_2^- to O_2 and H_2O_2 , which are then metabolized to H_2O and O_2 by catalase and glutathione peroxidase
Form	50mM Tris/HCl pH 7.7, 0.3M NaCl.
Molecular Mass	~25kD
Purity	>90% pure by SDS - PAGE analysis.
Storage	-20°C; 1 year+ Avoid freeze/ thaw cycle.

GENE INFORMATION

Gene Name	Sod2 superoxide dismutase 2, mitochondrial [Rattus norvegicus]
Official Symbol	Sod2

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Synonyms	SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial; Superoxide dimutase 2, mitochondrial;
Gene ID	24787
mRNA Refseq	NM_017051
Protein Refseq	NP_058747
Pathway	Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Oxidative Stress, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;
Function	DNA binding; identical protein binding; manganese ion binding; manganese ion binding; manganese ion binding; metal ion binding; oxidoreductase activity; oxygen binding; superoxide dismutase activity; superoxide dismutase activity; superoxide dismutase activity;

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