

## Product datasheet for **TP302330M**

### SOD2 (NM\_000636) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human superoxide dismutase 2, mitochondrial (SOD2), nuclear gene encoding mitochondrial protein, transcript variant 1, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC202330 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MLSRVAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQ  
EALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGGEPKGELEAIKRDFGSFDKFKELTAASV  
GVQSGSWGWLGFNKERGHLQIAACPNDPLQGTGLIPLLIGIDVWEHAYYLQYKNVRPDYKAIWNVINW  
ENVTERYMACKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 22.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_000627](#)

**Locus ID:** 6648



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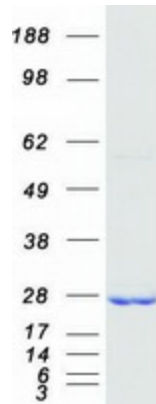
UniProt ID: [P04179](#), [A0A384NL29](#)  
RefSeq Size: 1593  
Cytogenetics: 6q25.3  
RefSeq ORF: 666  
Synonyms: GClnc1; IPO-B; IPOB; Mn-SOD; MNSOD; MVCD6

**Summary:** This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. [provided by RefSeq, Apr 2016]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Huntington's disease

### Product images:



Coomassie blue staining of purified SOD2 protein (Cat# [TP302330]). The protein was produced from HEK293T cells transfected with SOD2 cDNA clone (Cat# [RC202330]) using MegaTran 2.0 (Cat# [TT210002]).