

Product datasheet for **TP312924**

SOD2 (NM_001024465) 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 2, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC212924 protein sequence
Red=Cloning site **Green**=Tags(s)

MLSRVAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQ
EALAKGDVTAQIALQPALKFNNGGHINHSIFWTNLSPNGGGGEPKGELEAIKRDFGSFDKFEKLTAAVS
GVQGSWGWLGFNKERGHQLIAACPNDPLQGTGLIPLLIGIDVWEHAYYLQYKNVRPDYKAIWNVINW
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_001019636](#)

Locus ID: 6648



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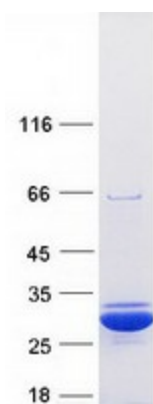
UniProt ID: [P04179](#)
RefSeq Size: 1035
Cytogenetics: 6q25.3
RefSeq ORF: 666
Synonyms: GClnc1; IPO-B; IPOB; Mn-SOD; MNSOD; MVCD6

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# TP312924). The protein was produced from HEK293T cells transfected with SOD2 cDNA clone (Cat# [RC212924]) using MegaTran 2.0 (Cat# [TT210002]).