

Product datasheet for PH312924

SOD2 (NM_001024465) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SOD2 MS Standard C13 and N15-labeled recombinant protein (NP_001019636)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212924
Predicted MW:	24.8 kDa
Protein Sequence:	>RC212924 protein sequence Red=Cloning site Green=Tags(s) MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTTEEKYQ EALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKFKELTAASV GVQGSWGWLGFNKERGHLQIAACPNDPLQGTGLIPLLGDVWEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001019636
RefSeq Size:	1035
RefSeq ORF:	666
Synonyms:	GClnc1; IPO-B; IPOB; Mn-SOD; MNSOD; MVCD6
Locus ID:	6648
UniProt ID:	P04179 , A0A384NL29



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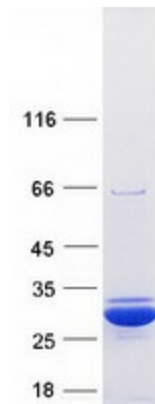
Cytogenetics: 6q25.3

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]).