

Product datasheet for PH304156

Superoxide Dismutase 3 (SOD3) (NM_003102) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SOD3 MS Standard C13 and N15-labeled recombinant protein (NP_003093)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204156
Predicted MW:	25.9 kDa
Protein Sequence:	>RC204156 protein sequence Red=Cloning site Green=Tags(s) MLALLCSCLLLAAGASDAWTGEDSAEPNSDSAEWIRDMYAKVTEIWQEVMQRRDDGTLHAACQVQPSAT LDAAQPRVTGVVLFRLAPRAKLDAFFALEGFPTPNSSRAIHVHQFGDLSQGCESTGPHYNPLAVPHP QHPGDFGNFAVRDGLWRYRAGLAASLAGPHSIVGRAVVVHAGEDDLGRGGNQASVENGNAGRRLACCVV GVCGPGLWERQAREHSERKKRRRESECKAA 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_003093
RefSeq Size:	1546
RefSeq ORF:	720
Synonyms:	EC-SOD
Locus ID:	6649
UniProt ID:	P08294 , A0A140VJU8



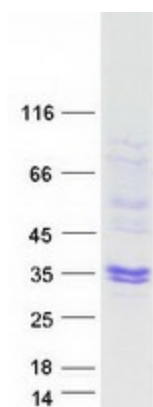
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Cytogenetics: 4p15.2

Summary: This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the conversion of superoxide radicals into hydrogen peroxide and oxygen, which may protect the brain, lungs, and other tissues from oxidative stress. Proteolytic processing of the encoded protein results in the formation of two distinct homotetramers that differ in their ability to interact with the extracellular matrix (ECM). Homotetramers consisting of the intact protein, or type C subunit, exhibit high affinity for heparin and are anchored to the ECM. Homotetramers consisting of a proteolytically cleaved form of the protein, or type A subunit, exhibit low affinity for heparin and do not interact with the ECM. A mutation in this gene may be associated with increased heart disease risk. [provided by RefSeq, Oct 2015]

Protein Families: Druggable Genome, Secreted Protein

Product images:



Coomassie blue staining of purified SOD3 protein (Cat# [TP304156]). The protein was produced from HEK293T cells transfected with SOD3 cDNA clone (Cat# [RC204156]) using MegaTran 2.0 (Cat# [TT210002]).