Superoxide dismutase [Mn] 3.1, mitochondrial (SODA.4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10581*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Superoxide dismutase [Mn] 3.1, mitochondrial (SODA.4)

Product Gene Name
SODA.4 recombinant protein

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
VTTVTLPDLS YDFGALEPAI SGEIMRLHHQ KHHATYVANY NKALEQLETA VSKGDASAVV QLQAAIKFNG GGHVNHSIFW KNLKPISEGG GEPPHGKLGW AIDEDFGSFE ALVKKMNAEG AALQGSGWVW LALDKEAKKV SVETTANQDP LVTKGASLVP LLGIDVWEHA YYLQYKNVRP DYLNNIWKVM NWKYAGEVYE NVLA

Sequence Positions
32-235, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
25,545 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Superoxide dismutase

NCBI Accession
NP_001105742.1

NCBI GI
162461288

NCBI GenBank Nucleotide
NM_001112272.2

NCBI GeneID
542764

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NCBI Official Full Name
superoxide dismutase

NCBI Official Symbol
sod3

NCBI Official Synonym Symbols
SODA.4; GRMZM2G059991

NCBI Protein Information
superoxide dismutase [Mn] 3.1, mitochondrial

UniProt Gene Name
SODA.4

UniProt Synonym Gene Names
SOD3; SOD3.1

UniProt Protein Name
Superoxide dismutase [Mn] 3.1, mitochondrial

UniProt Primary Accession
P09233

UniProt Related Accession
P09233

UniProt Comments
Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.

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