Product Name: Recombinant Human SOD2 (C-6His)
Catalog #: PHH1548

Summary

Name	SOD2/Mn-SOD
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Superoxide Dismutase [Mn] Mitochondrial is produced by our Mammalian expression system and the target gene encoding Lys25-Lys222 is expressed with a 6His tag at the C-terminus.
Accession #	P04179
Host	Human Cells
Species	Human
Predicted Molecular Mass	23.24 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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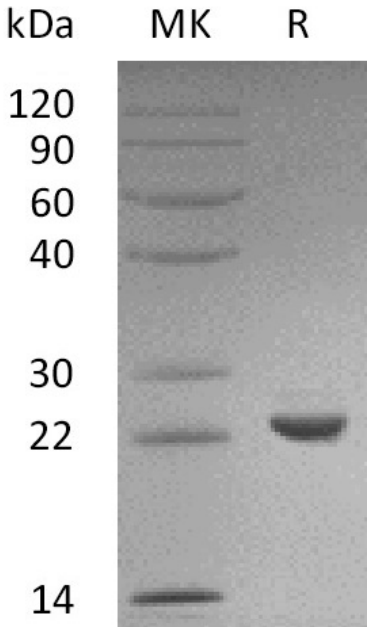

Alternative Names

Superoxide Dismutase [Mn] Mitochondrial; SOD2

Background

Superoxide Dismutase (SOD2) belongs to the iron/manganese superoxide dismutase family. SOD2 is a mitochondrial matrix protein that forms a homotetramer and binds one manganese ion per subunit. SOD2 transforms toxic superoxide, a byproduct of the mitochondrial electron transport chain into hydrogen peroxide and diatomic oxygen. It is reported that oxidative stress plays an essential role in the development of breast cancer, while SOD2 is one of the primary enzymes that directly convert potential harmful oxidizing species to harmless metabolites.

Note

For Research Use Only , Not for Diagnostic Use.