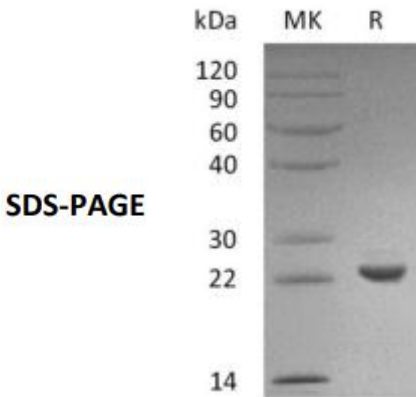


Recombinant Human SOD2

Catalog#:P00978 Derived from Human Cells

DESCRIPTION	<p>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.</p> <p>Accession#: P04179</p> <p>Known as: Superoxide Dismutase [Mn] Mitochondrial; SOD2</p>
FORMULATION	Supplied as a 0.2 μ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
SHIPPING	<p>The product is shipped on dry ice/polar packs.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Store at \leq-70°C, stable for 6 months after receipt.</p> <p>Store at \leq-70°C, stable for 3 months under sterile conditions after opening.</p> <p>Please minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass:23.24kDa AP Mol Mass:25kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1ng/μg (1 EU/μg) as determined by LAL test.</p>
BACKGROUND	<p>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.</p>
 <p>SDS-PAGE</p>	