



Recombinant Protein Technical Manual
Recombinant Human SOD2/Mn-SOD Protein (His
Tag, Human Cells)
RPES5248

Product Data:

Product SKU: RPES5248

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P04179

Protein Information:

Molecular Mass: 23.2 kDa

AP Molecular Mass: 25 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Superoxide Dismutase [Mn] Mitochondrial; SOD2

Immunogen Information:

Sequence: Lys25-Lys222

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.