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32-7579: Recombinant Human SOD2/Mn-SOD (N-6His)

Gene : SOD2
Gene ID : 6648
Uniprot ID : P04179

Description

Source: E.coli.
MW :23.7kD.
Recombinant Human Superoxide Dismutase [Mn] Mitochondrial is produced by our E.coli expression system and the target gene encoding Lys25-Lys222 is expressed with a 6His tag at the N-terminus. Superoxide Dismutase (SOD2) is a number of the iron/manganese superoxide dismutase family. SOD2 is a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. The SOD2 protein transforms toxic superoxide and a byproduct of the mitochondrial electron transport chain into hydrogen peroxide and diatomic oxygen. Genetic variation in SOD2 is associated with microvascular complications of diabetes type 6 (MVCD6), idiopathic cardiomyopathy (IDC), sporadic motor neuron disease, and cancer. SOD2 destroys superoxide anion radicals which are usually produced within the cells and which are toxic to biological systems.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM Tris,100mM NaCl,50% glycerol,pH 8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MHHHHHHDDDDKKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAKGDVTAQIAL
QPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKFKEKLTAASVGVQGSGWGWLGFNKER
GHLQIAACPNQDPLQGTTGLIPLLGIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYMACKK

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.