

## 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 member 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 :** MHHHHHHDDDDKKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAKGDVTAQIAL  
QPALKFNGGGHINHSIFWTNLSPNGGEPKGELEAIKRDFGSDKFKELTAASVGVQSGWGWLGFNKER  
GHLQIAACPNQDPLQGTGLIPLLIDVWEHAYYLQYKNVRPDYKAIWNVINWENVTERYMACKK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.