

本公司提供的电子版本说明书仅供参考，实验请以收到的纸质手册为准。

SOD2, 25-222aa, Human, His tag, E.coli

产品货号: TP04002

第三版

**别名:**IPOB, MNSOD, MVCD6, Superoxide dismutase [Mn], mitochondrial IPO B, Manganese SOD, Manganese superoxide dismutase, Mn SOD, SOD 2, SOD2, Superoxide dismutase [Mn] mitochondrial, Superoxide dismutase 2 mitochondrial, Superoxide Dismutase-2

**描述:**SOD2 is a member of the iron/manganese superoxide dismutase family. It is a mitochondrial matrix protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this protein have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Recombinant human SOD2 protein was expressed in E.coli and purified by using conventional chromatography techniques.

**配方:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol

**分子量:**24.4kDa (219aa), confirmed by MALDI-TOF.

**序列:**

MGSSHHHHHSSGLVPRGSHMKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAKGDVTA  
QIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKFKEKLTAASVGVQGSWGWLGFNKERGHL  
QIAACPNDPLQGTGLIPLLIDVWEHAYYLQYKNVRPDYKAIWNVINWENVTERYMACKK

**纯度:**> 95% by HPLC

**浓度:**0.5 mg/ml (determined by Bradford assay)

**内毒素:**<1.0 EU per 1 ug of protein (determined by LAL method)

**存储:** +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.