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Sod2,25-222aa , Mouse, His tag, E.coli

产品货号: TP04003

第三版

别名:Superoxide dismutase [Mn], mitochondrial , superoxide dismutase 2, mitochondrial, MnSOD, Sod-2

描述:Sod2 also known as superoxide dismutase [Mn], mitochondrial, 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 mouse Sod2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方:Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

分子量:24.6kDa (221aa) confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNATEEKYHEALAKGDV
TTQVALQPALKFNNGGHINHTIFWTNLSPKGGGEPKGELLEAIKRDFGSFEKFKELTAVSVG VQSGWGWLGFNKEQG
RLQIAACSNQDPLQGTTGLIPLLIDVWEHAYYLQYKNVRPDYKAIWNVINWENVTERYTACKK

纯度:> 95% by HPLC

浓度:1mg/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.