

Recombinant human SOD2/MnSOD protein ab93946

2 References 1 图像

描述	
产品名称	重组人SOD2/MnSOD蛋白
生物活性	<p>Specific activity is > 1,200 units/mg, in which one unit will inhibit the rate of reduction of cytochrome c by 50% in a coupled system, using xanthine and Xanthine oxidase at pH 7.8 at 25°C in a 1.5 ml reaction volume.</p> <p>Activity Assay</p> <p>Prepare a 1.5 ml reaction mix into a suitable container and pre-chill on ice before use: The final concentrations are 50mM potassium phosphate, 0.1mM ethylenediaminetetraacetic acid, 0.01mM cytochrome C, 0.05mM xanthine, 0.005 units xanthine oxidase. Equilibrate to 25°C and monitor at A550nm until the value is constant using a spectrophotometer.</p> <p>Add 50 ul of recombinant SOD protein in various concentrations (0.5 ug, 1 ug) in assay buffer.</p> <p>Mix by inversion and record the increase at A550nm for 5 minutes.</p>
纯度	<p>> 95 % SDS-PAGE.</p> <p>ab93946 was purified using conventional chromatography techniques.</p>
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<p>MGSSHHHHHSSGLVPRGSHMKHSLPDLPYDYGALPHINAQ</p> <p>IMQLHHSK</p> <p>HHAAYVNNLNVTEEKYQEALAKGDVTAQIALQPALKFNNGGGH</p> <p>INHSIFWT</p> <p>NLSPNGGGEPKGELLEAIKRDFGSFDKFKEKLTAA SVGVQGS</p> <p>GWGWLGFN</p> <p>KERGHLQIAACPNDPLQGTTGLIPLLGDVWEHAYYLQYKN</p> <p>VRPDYLKA IWNVINWENVTERYMACKK</p>

技术指标

Our **Abpromise guarantee** covers the use of **ab93946** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE Mass Spectrometry
质谱法	MALDI-TOF
形式	Liquid
制备和贮存	
稳定性和存储	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine)</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
常规信息	
功能	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.
疾病相关	Genetic variation in SOD2 is associated with susceptibility to microvascular complications of diabetes type 6 (MVCD6) [MIM:612634]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
序列相似性	Belongs to the iron/manganese superoxide dismutase family.
翻译后修饰	Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.
细胞定位	Mitochondrion matrix.

图片



15% SDS-PAGE analysis of ab93946 (3µg)

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