

Recombinant human SOD2/MnSOD protein ab93946

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製品の詳細

製品名	Recombinant human SOD2/MnSOD protein
生理活性	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. Activity Assay 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. Add 50 ul of recombinant SOD protein in various concentrations (0.5 ug, 1 ug) in assay buffer. Mix by inversion and record the increase at A550nm for 5 minutes.
精製度	> 95 % SDS-PAGE. ab93946 was purified using conventional chromatography techniques.
発現系	Escherichia coli
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MGSSHHHHHSSGLVPRGSHMKHSLPDLPYDYGALPHINAQ IMQLHHSK HHAAYVNNLNVTEEKYQEALAKGDVTAQIALQPALKFNGGGH INHSIFWT NLSPNGGGEKPKGELLEAIKRDFGSFDKFKELTAASVGVQGS GWGWLGFN KERGHLQIAACPNDPLQGTGLIPLLGIDVWEHAYYLQYKN VRPDYLKA IWNVINWENVTERYMACKK

特性

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.

アプリケーション	SDS-PAGE Mass Spectrometry
質量分析	MALDI-TOF
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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関連情報

機能	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.
関連疾患	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.
配列類似性	Belongs to the iron/manganese superoxide dismutase family.
翻訳後修飾	Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.
細胞内局在	Mitochondrion matrix.

画像



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

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