9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SODA E.Coli

Superoxide Dismutase E.Coli Recombinant
RCP2192

Product Overview

Name	SODA E.Coli
Description	
Superoxide Dismutase E.Coli Recombinant	
Accession (Primary)	P00448
Synonyms	
Superoxide dismutase [Mn], MnSOD, soda, b3908, JW3879.	
Introduction	
Superoxide dismutase Mn (soda) belongs to the iron/manganese superoxide dismutase family. SodA destroys radicals that are typically produced within the cells and which are toxic to biological systems. SodA works by catalyzing the dismutation of the superoxide radical O 2 - to O 2 and H 2 O 2 , which are then metabolized to H 2 O and O 2 by catalase and glutathione peroxidase.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
SODA E.coli solution (1mg/ml) containining 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK HHQTYVNNAN AALESLPEFA NLPVEELITK LDQLPADKKT VLRNNAGGHA NHSLFWKGLK KGTTLQGDLK AAIERDFGSV DNFKAEFEKA AASRFGSGWA WLVLKGDKLA VVSTANQDSP LMGEAISGAS GFPIMGLDVW EHAYYLKFQN RRPDYIKEFW NVVNWDEAAA RFAAKK.	
Biological Activity	

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Specific activity is > 350 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 25C in a 1.5 ml reaction volume.

Precautions

SODA E.Coli is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P00448)