

Superoxide Dismutase-2 Human Recombinant

Item Number	rAP-4869
Synonyms	MNSOD, MVCD6, IPOB, Mn superoxide dismutase, EC=1.15.1.1.
Description	SOD2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 219 amino acids (25-222 a.a.) and having a molecular mass of 24.4kDa. SOD2 protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography.
Uniprot Accesion Number	P04179
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MKHSLPDLPY DYGALEPHIN AQIMQLHHSK HHAAYVNNLN VTEEKYQEAL AKGDVTAQIA LQPALKFNGG GHINHSIFWT NLSPNGGGEK KGELLEAIKR DFGS-FDKFKE KLTAASVGVQ GSGWGWLGFN KERHQLQIAA CPNQDPLQGT TGLIPLLID VWEHAYYLQY KNVRPDYLKA IWNVINWENV TERYMACKK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	SOD2 Human solution containing 20mM Tris-HCl pH-8 & amp; 20% glycerol. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	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 25C in a 1.5 ml reaction volume.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**