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Superoxide Dismutase 2 (SOD-2), human recombinant protein

Human Recombinant SOD2
Catalog # PBV10597r

Specification

Superoxide Dismutase 2 (SOD-2), human recombinant protein - Product info

Primary Accession	P04179
Concentration	0.5
Calculated MW	24.4 kDa (219 aa, 25-222 aa + His Tag) KDa

Superoxide Dismutase 2 (SOD-2), human recombinant protein - Additional Info

Gene ID	6648
Gene Symbol	SOD2

Other Names
Superoxide dismutase [Mn], mitochondrial, IPOB, MNSOD, MVCD6.

Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	>1,200 units/mg
Sequence	MGSSHHHHHH SSGLVPRGSH MKHSLPDLPY DYGALEPHIN AQIMQLHHSK HHAAYVNNLN VTEEKYQEAL AKGDVTAQIA LQPALKFNGG GHINHSIFWT NLSPNGGGEP KGELLEAIKR DFGSFDKFKE KLTAASVGVQ GSGWGWLGFN KERGHLQIAA CPNQDPLQGT TGLIPLLGID VWEHAYYLQY KNVRPDYLKA IWNVINWENV TERYMACKK

Format
Liquid

Storage
-80°C; 0.5 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 20% glycerol.

Superoxide Dismutase 2 (SOD-2), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

- Flow Cytomety
- Cell Culture

Superoxide Dismutase 2 (SOD-2), human recombinant protein - Images

Superoxide Dismutase 2 (SOD-2), human recombinant protein - Background

SOD2 is part of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. SOD2 binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in SOD2 gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. SOD2 destroys radicals which are usually produced within the cells and which are toxic to biological systems.

Superoxide Dismutase 2 (SOD-2), human recombinant protein - References

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Beck Y.,et al.Nucleic Acids Res. 15:9076-9076(1987).
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Church S.L.,et al.Biochim. Biophys. Acta 1087:250-252(1990).