

## Superoxide Dismutase Human Recombinant

<b>Item Number</b>	rAP-4867
<b>Synonyms</b>	Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD, ALS, ALS1, IPOA.
<b>Description</b>	Recombinant Human Cu/Zn Superoxide Dismutase produced in E.Coli is a non-glycosylated homodimeric polypeptide chain containing 2 x 154 amino acids and having a total molecular mass of 31kDa.&nbsp;
<b>Uniprot Accesion Number</b>	P00441
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Lys-Ala-Val.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized SOD although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SOD should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized SOD in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The potency per mg was tested by Pyrogallic Acid method and was found to be more than 10,000 Units/mg.
<b>Shipping Format and Condition</b>	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**