

## Superoxide Dismutase Human Recombinant His Tag

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| <b>Item Number</b>                       | rAP-4863  |
| <b>Synonyms</b>                          | Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD, ALS, ALS1, IPOA.  |
| <b>Description</b>                       | SOD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 189 amino acids with a 10 × His at N-terminus and having a molecular mass of 40.0kDa. The SOD Human is purified by proprietary chromatographic techniques.   |
| <b>Uniprot Accession Number</b>          | P00441  |
| <b>Amino Acid Sequence</b>               | MGHHHHHHHH HHSSGHIEGR HMTYARAAAR QARALEATKA VCVLKGDGPV QGIINFEQKE<br>SNGPVKVGWS IKGLTEGLHG FHVHEFGDNT AGCTSAGPHF NPLSRKHGGP KDEERHVGDL GNVTAD-<br>KDGV ADVSIEDSVI SLSGDHCIIG RTLVVHEKAD DLGKGGNEES TKTGNAGSRL ACGVIGIAQ   |
| <b>Source</b>                            | Escherichia Coli.   |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized SOD Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SOD Human should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | Lyophilized from a 0.2um filtered concentrated solution in PBS, pH 7.4. Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.   |
| <b>Application</b>                       |   |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized SOD in sterile 18M <sup>2</sup> -cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.  |
| <b>Biological Activity</b>               | Fully biologically active when compared to standard. The specific activity was tested by Pyrogalllic Acid method and was found to be more than 10,000Units/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**