

Superoxide Dismutase Active Protein | SOD active protein

Recombinant Human Superoxide Dismutase (SOD)

CATALOG #
AAA38419

HOST
E Coli

PRODUCT SYNONYMS

Superoxide Dismutase; Recombinant Human Superoxide Dismutase (SOD); SOD Human; Superoxide Dismutase Human Recombinant; Superoxide dismutase [Cu-Zn]; EC 1.15.1.1; SOD1; SOD; ALS; ALS1; IPOA; SOD active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
Sequence	ATKAVCVLKG DGPVQGIINF EQKESNGPVK VWGSIKGLTE GLHGFHVHEF GDNTAGCTSA GPHFNPLSRK HGGPKDEERH VGD LGNVTAD KDG VADVSIE DSVISLSGDH CIIGRTLNVH EKADDLGKGG NEESTKTGNA GSRLACGVIG IAQ.
Sequence Length	154
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized SOD in sterile 18M Omega-cm H2O not less than 100ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The potency per mg was tested by Pyrogalllic Acid method and was found to be more than 3,000 Units/mg.
Preparation and Storage	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.

ADDITIONAL INFORMATION

Related Product Information for SOD active protein	Recombinant Human Cu/Zn Superoxide Dismutase produced in E.Coli is a non-glycosylated homodimeric polypeptide chain containing 2 x 153 amino acids and having a total molecular mass of 31.6kDa.
Product Categories/Family for SOD active protein	Recombinant & Natural Proteins ; Recombinant Proteins ; Superoxide Dismutase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507149
NCBI GeneID	6647
NCBI Accession #	NP_000445.1
NCBI GenBank Nucleotide #	NM_000454.4
UniProt Accession #	P00441 ; Q16669 ; Q16711 ; Q16838 ; Q16839 ; Q16840 ; Q6NR85 ; A6NHJ0 ; D3DSE4
NCBI Official Full Name	superoxide dismutase

NCBI Official Synonym Full Names	superoxide dismutase 1, soluble
NCBI Official Symbol	SOD1
NCBI Official Synonym Symbols	ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer
NCBI Protein Information	superoxide dismutase [Cu-Zn]; superoxide dismutase [Cu-Zn]; Cu/Zn superoxide dismutase; SOD, soluble; epididymis secretory protein Li 44; indophenoxidase A; superoxide dismutase, cystolic
UniProt Protein Name	Superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD1
UniProt Synonym Gene Names	hSod1
UniProt Entry Name	SODC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-sod-active-protein/superoxide-dismutase/38419>