

Recombinant Human Superoxide Dismutase 1 (SOD1) Protein, Biotinylated

Catalog Number: 230-30175B

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/27/2024

Source

Species	Human
Accession Number	P00441
Gene Symbols	SOD1
Synonyms	Superoxide dismutase [Cu-Zn], hSod1, Superoxide dismutase 1
Expressed Region	Ala2-Gln154

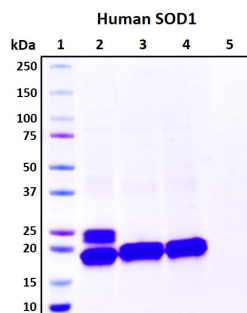
Preparation

Expression System	HEK293 cells
Tag	N-terminal his-tag. The primary amino groups (-NH ₂) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of ~18 kDa. Due to the abundant glycosylation, it migrates as two major protein bands (18 kDa and 25 kDa) in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. After deglycosylation under native and denature conditions, the protein presented as one ~18 kDa band. See deglycosylation analysis image below.
Endotoxin Level	< 0.5 EU per ug of the protein as determined by the LAL method

Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
Concentration	Determined by BCA protein assay
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water.

SDS-PAGE Image



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer.
- Generally, the shelf life is up to 12 months from date of receipt at -20°C or -80°C under sterile conditions.
- Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots at -20°C or -80°C.