

Recombinant Human Sod1 Protein, HEK293 Lysate

Catalog Number: 230-10358-100

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/26/2024

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
Purity	Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80°C immediately. Protein concentration was determined by BCA kit (Thermo Scientific, Inc.) using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control.
Molecular Weight	Recombinant protein product has a calculated molecular mass of 18. The actual molecular weight may increase slightly due to the potential post-translational modifications (PTMs).

Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4) containing mammalian cell protease inhibitor cocktail
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 mg/mL with sterile deionized water.

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.