

Recombinant Human SOD1 protein (His Tag)

Catalog Number: Eg1043

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
N-His

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human SOD1 protein Ala2-Gln154 (Accession# P00441) with a His tag at the N-terminus.

GeneID:

6647

Accession:

P00441

Predicted Molecular Mass:

19.9 kDa

SDS-PAGE:

18-22 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) (SOD1, synonyms: ALS, SOD, ALS1, IPOA) binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. This isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis.

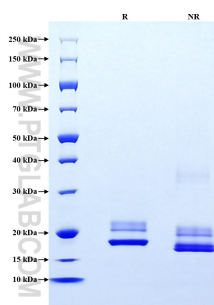
References

- 1.J M McCord. et al. (1969). J Biol Chem. 244(22):6049-55.
- 2.Karin Forsberg. et al. (2010). PLoS One. 5(7):e11552.
- 3.Zhi Feng Lin. et al. (2013). Biochem Biophys Res Commun. 441(1):191-5.

Synonyms

SOD1, ALS1, EC:1.15.1.1, homodimer, hSod1

Selected Validation Data



Purity of Recombinant Human SOD1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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