

Datasheet for ABIN6700587 **SOD1 Protein (GST tag)**



[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	SOD1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOD1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	SOD1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human SOD1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	SOD1
Alternative Name:	SOD1 (SOD1 Products)
Background:	Synonyms: Cu/Zn-SOD, ALS, SOD, ALS1, IPOA, Homodimer, Superoxide Dismutase 1 Background: SOD1 (superoxide dismutase 1) is the major soluble cytoplasmic enzyme responsible for destroying harmful free superoxide radicals in the body thereby providing

Target Details

defense against oxygen free-radical toxicity. Soluble cytoplasmic SOD1 is a copper- and zinc-containing enzyme and the SOD1 gene maps to chromosome 21q22 (1). Mutations in the SOD1 gene have been implicated to be the cause of familial amyotrophic lateral sclerosis, increased age-related muscle mass loss, early development of cataracts, macular degeneration, thymic involution, hepatocellular carcinoma, and shortened lifespan (2). SOD1 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cellular Stress, Inflammation, and Neurobiology research.

NCBI Accession: [NM_000454](#)

Pathways: [Sensory Perception of Sound](#), [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: Application Note: SOD1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol. SOD1 Protein is suitable for use in Western Blot. Expect a band approximately ~45 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Western Blot Dilution: User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: SOD1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months