

Recombinant Human SOD2 Protein Product Manual

1. Product Basic Information

Product No.: REP08296

Protein Name: Mangan-Superoxide Dismutase (SOD2)

Aliases: GC1; IPOB; IPO-MNSOD; MVCD6; GCInc1; Mn-SOD; lncRNA-GC1; mangan-superoxide dismutase; superoxide dismutase [Mn], mitochondrial; manganese-containing superoxide dismutase; epididymis secretory sperm b...

UniProt ID: P04179

UniProt Link: <https://www.uniprot.org/uniprotkb/P04179/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-222aa)

Molecular Weight: 50.4 kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (1-222aa)

MLSRVCGTSRQLAPVLGYLGSRQKHSLPDLPHYDYGALEPHINAQIMQLHHSKHHA
AYVNNLNVTEEKYQEALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGE
PKGELLEAIKRDFGSFDKFKEKLTAA SVGVQSGWGWLGFNKERGHLQIAACPNQ
DPLQGTTGLIPLLIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYMACKK

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the



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protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human SOD2 full length protein (1-222aa) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. SOD2, also known as GC1 or IPOB or IPO-MNSOD, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.