

Recombinant Human ALDH4A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06111

Protein Name: P5C Dehydrogenase (ALDH4A1)

Aliases: P5CD; ALDH4; P5CDh; P5C dehydrogenase; aldehyde dehydrogenase 4 family member A1; aldehyde dehydrogenase family 4 member A1; epididymis secretory sperm binding protein; L-glutamate gamma-semialdehyde ...

UniProt ID: P30038

UniProt Link: <https://www.uniprot.org/uniprotkb/P30038/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (25-563aa)

Molecular Weight: 66.0 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (25-563aa)

KHTSSLKVANEPVLAFTQGSPERDALQKALKDLKGRMEAIPCVVGDEEVWTS DVQ
YQVSPFNHGHKVAKFCYADKSLNKAIEAALAARKEWDLKPIADRAQIFLKAADMLS
GPRRAEILAKTMVGQGKTVIQAEIDAAAELIDFFRFNAKYAVELEGQQPISVPPSTNS
TVYRGLEGFVAAISP FNFTAIGGNLAGAPALMGNVVLWKPSDTAMLASYAVYRILRE
AGLPNNIIQFVPADGPLFGDTVTSSEHLCGINFTG SVPTFKHLWKQVAQNLD RFHTF
PRLAGECGGKNFHFVHRSADVESVVS GTLRSAFEYGGQKCSACSRLYVPHSLWP
QIKGRLL EEHSRIKVGDP AEDFGTFFSAVIDAKSFARIKKWLEHARSSPSLTILAGGK
CDDSVGYFVEPCIVESKDPQEPI MKEEIFGPVLSVYVYPDDKYKETLQLVDSTTSYG
LTGAVFSQDKDVVQEATKVLRNAAGNFYINDKSTGSIVGQQPFGGARASGTNDKP
GGPHYILRWTS PQVIKETHKPLGDWSYAYMQ

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).



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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 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 ALDH4A1 full length of mature protein protein (25-563aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. ALDH4A1, also known as P5CD or ALDH4 or P5CDh, 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.