



Recombinant Rat ALDH2 Protein Product Manual

1. Product Basic Information

Product No.: REP06110

Protein Name: Aldh Class Liver Mitochondrial Aldh (ALDH2)

Aliases: ALDM; ALDHI; ALDH-E2; ALDH class liver mitochondrial ALDH; aldehyde dehydrogenase 2 family member; epididymis secretory sperm binding protein; aldehyde dehydrogenase 2 family (mitochondrial

UniProt ID: P05091

UniProt Link: <https://www.uniprot.org/uniprotkb/P05091/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (20-519aa)

Molecular Weight: 60.3 kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (20-519aa)

SAAATSAVPAPNQQPEVFCNQIFINNEWHDAVSKKTFPTVNPSTGEVICQVAEGNK
EDVDKAVKAAQAAFQLGSPWRRMDASDRGRLLYRLADLIERDRTYLAALETLDNGK
PYVISYLVLDLMDVLKCLRYAGWADKYHGKTIPIDGDFFSYTRHEPVGVCQGIIIPWN
FPLLMQAWKLGPALATGNVVMKVAEQTPLTALYVANLIKEAGFPPGVNIVPGFG
PTAGAAIASHEDVDKVAFTGSTEVGHILQVAAGSSNLKRVTLLELGGKSPNIIMSDAD
MDWAVEQAHFALFFNQGGQCCAGSRTFVQEDVYDEFVERSVARAKSRVVGPNPFD
SRTEQGPQVDETQFKKILGYIKSGQQEGAKLLCGGGAAADRGYFIQPTVFGDVKDG
MTIAKEEIFGPVMQILKFKTIEEVVGRANNSKYGLAAVFTKDLDKANYLSQALQAGT
VWENCYDVFGAQSPFGGYKMSGSGRELGEYGLQAYTEVKTVTVKVPQKNS

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

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 Rat ALDH2 full length of mature protein protein (20-519aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. ALDH2, also known as ALDM or ALDHI or ALDH-E2, 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.