



Recombinant Human ALDH1A3 Protein Product Manual

1. Product Basic Information

Product No.: REP06108

Protein Name: ALDH1A3

Aliases: ALDH6; MCOP8; RALDH3; ALDH1A6

UniProt ID: P47895

UniProt Link: <https://www.uniprot.org/uniprotkb/P47895/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-512aa)

Molecular Weight: 72.0kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (2-512aa)

ATANGAVENGQPDRKPPALPRPIRNLEVKFTKIFINNEWHESKSGKKFATCNPSTRE
QICEVEEGDKPDVDKAVEAAQVAFQRGSPWRRLDALSRGRLHQLADLVERDRAT
LAALETMDTGKPFLLHAFFIDLEGCIRTLRYFAGWADKIQQKTIPTDDNVVCFTRHEPI
GVCGAITPWNFPLLMLVWKLAPALCCGNTMVLKPAEQTPLTALYLGSLIKEAGFPPG
VVNIVPGFGPTVGAAISSHPQINKIAFTGSTEVGKLVKEAASRSNLKRVTLLELGGKNP
CIVCADADLDLAVECAHQGVFFNQGGCCTAASRVFVEEQVYSEFVRRSVEYAKKR
PVGDPFDVKTEQGPQIDQKQFDKILELIESGKKEGAKLECGGSAMEDKGLFIKPTVF
SEVTDNMRIAKEEIFGPVQPILKFKSIEEVIKRNSTDYGLTAAVFTKNLKDALKLASA
LESGTVWINCYNALYAQAPFGGFKMSGNGRELGEYALAEYTEVKTVTIKLGDKNP

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 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 ALDH1A3 full length of mature protein protein (2-512aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. ALDH1A3, also known as ALDH6 or MCOP8 or RALDH3, 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.