



Recombinant Mouse AKR1A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06098

Protein Name: Aldehyde Reductase (AKR1A1)

Aliases: ALR; ARM; DD3; ALDR1; scorR; HEL-S-HEL-S-165mP; aldehyde reductase; alcohol dehydrogenase; glucuronate reductase; S-nitroso-CoA reductase; glucuronolactone reductase

UniProt ID: P14550

UniProt Link: <https://www.uniprot.org/uniprotkb/P14550/entry>

Species Source: Mus musculus (Mouse)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-325aa)

Molecular Weight: 43.9 kDa

Protein Tag: N-terminal 10xHis-tagged and C-terminal Myc-tagged

2. Amino Acid Sequence (2-325aa)

TASSVLLHTGQKMPLIGLGTWKSEPGQVKAAIKHALSAGYRHIDCASVYGNETEIGE
ALKESVGSKGAVPREELFVTSKLWNTKHHPEDVEPALRKTADLQLEYLDLYLMHW
PYAFERGDNPFPKNADGTVRYDSTHYKETWKALEVLVAKGLVKALGLSNFNSRQID
DVLSVASVRPAVLQVECHPYLAQNELIAHCHARGLEVTAYSPLGSSDRAWRHPDEP
VLLEEPVVLALAEKHGRSPAQILLRWQVQRKVICIPKSINPSRILQNIQVDFDTFSPEE
MKQLDALNKNWRYIVPMITVDGKRVPRDAGHPLYPFNDPY

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 Mouse AKR1A1 full length of mature protein protein (2-325aa) expressed in E.coli. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. AKR1A1, also known as ALR or ARM or DD3, 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.