



Recombinant Rat ATP1A3 Protein Product Manual

1. Product Basic Information

Product No.: REP06204

Protein Name: Na(+)/K(+) Atpase Alpha(III) Subunit (ATP1A3)

Aliases: RDP; AHC2; CAPOS; DEE99; DYT12; Na(+)/K(+) ATPase alpha(III) subunit; ATPase, Na+/K+ transporting, alpha 3 polypeptide

UniProt ID: P13637

UniProt Link: <https://www.uniprot.org/uniprotkb/P13637/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Partial (329-762aa)

Molecular Weight: 54.6 kDa

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

2. Amino Acid Sequence (329-762aa)

TVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMMWFD
NQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGD
ASESALLKCIELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVM
KGAPERILDRCATILLQGKEQPLDEEMKEAFQNAYLELGGLGERVLGFCHYYLPEE
QFPKGFAFDCDDVNFTTDNLFCVGLMSMIDPPRAAVPDAVGKCRSAGIKVIMVTGD
HPITAKAIAKGVGIIEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEI
DEILQNHTEIVFARTSPQQKLIIVEGCRQGAIVAVTGDGVNDSPALKKADIGVAMGI
AGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNL

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 Rat ATP1A3 partial protein (329-762aa) 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. ATP1A3, also known as RDP or AHC2 or CAPOS, 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.