



Recombinant Human ATP5A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06208

Protein Name: Atp Synthase F1 Subunit Alpha (ATP5A1)

Aliases: ATP synthase F1 subunit alpha

UniProt ID: P25705

UniProt Link: <https://www.uniprot.org/uniprotkb/P25705/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (44-553aa)

Molecular Weight: 59.2kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (44-553aa)

QKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSS
GLKGMSLNLEPDNVGVVFGNDKLIKEGDIVKRTGAIVDVPVGEELLGRVVDALGNA
IDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQT
GKTSIAIDTIINQKRFDNGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVV
SATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLLRRP
PGREAYPGDVFYLSRLLERAAMNDAFGGGSLTALPVIETQAGDVSAYIPTNVISIT
DGQIFLETIFYKIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAAF
AQFGSDLDAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPS
KITKFENAFLSHVVSQHQALLGTIRADGKISEQSDAKLKEIVTNFLAGFEA

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 ATP5A1 full length of mature protein protein (44-553aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. ATP5A1, also known as ATP synthase F1 subunit alpha, 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.