

Recombinant Human PAICS Protein Product Manual

1. Product Basic Information

Product No.: REP07725

Protein Name: Air Carboxylase (PAICS)

Aliases: ADE2; AIRC; PAIS; ADE2H1; PAICSD; AIR carboxylase; SAICAR synthetase; multifunctional protein ADE2; multifunctional protein ADE2H1; phosphoribosylaminoimidazole carboxylase

UniProt ID: P22234

UniProt Link: <https://www.uniprot.org/uniprotkb/P22234/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-425aa)

Molecular Weight: 53.9 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (2-425aa)

ATAEVLNIGKKLYEGKTKEVYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISN
KITSCIFQLLQEAGIKTAFTRKCGETAFIAPQCCEMPIEWVCRRIATGSFLKRNPVKE
GYKFYPPKVELFFKDDANNDPQWSEEQLIAAKFCFAGLLIGQTEVDIMSHATQAI FEI
LEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVIDNDSWRLWPSGDRSQQKDKQSY
RDLKEVTPEGLQMVKKNFEWVAERVELLLKSESQCRVVLMGSTSDLGHCEKIKKA
CGNFGIPCELRVTS AHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNT
AYPVISCPPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVW
SKLRASILNTWISLQADKKIRECNL

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 PAICS full length of mature protein protein (2-425aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. PAICS, also known as ADE2 or AIRC or PAIS, 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.