



Recombinant strain K12 poxB

Protein Product Manual

1. Product Basic Information

Product No.: REP07852

Protein Name: Pyruvate Oxidase (poxB)

Aliases: pyruvate oxidase

UniProt ID: P07003

UniProt Link: <https://www.uniprot.org/uniprotkb/P07003/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length (1-572aa)

Molecular Weight: 66.0kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-572aa)

MKQTVAAAYIAKTLESAGVKRIWGVTDGSLNGLSDSLNRMGTIEWMSTRHEEVAFA
AGAEQQLSGELAVCAGSCGPGNLHLINGLFDCHRNHVPVLAIAAHIPSSSEIGSGYFQ
ETHPQELFRECSHYCELVSSPEQIPQVLAIAMRKAVLNRGVSVVVLPGDVALKPAPE
GATMHWHYHAPQPVVTPPEEEELRKLALQLLRYSSNIALMCGSGCAGAHKELVEFAGKI
KAPIVHALRGKEHVEYDNPYDVGMTGLIGFSSGFHTMMNADTLVLLGTQFPYRAFY
PTDAKIIQIDINPASIGAHSKVDMALVGDIKSTLRALLPLVEEKADRKFLDKALEDYRD
ARKGLDDLAKPSEKAIHPQYLAQQISHFAADDAIFTCDVGTPTVWAARYLKMNGKR
RLLGSFNHGSMANAMPQALGAQATEPERQVVAMCGDGGFSMLMGDFLSVVQMK
LPVKIVVFNNSVLGFMEMKAGGYLTDGTELHDTNFARIAEACGITGIRVEKASEV
DEALQRAFSIDGPVLVDVVVAKEELAIPPQIKLEQAKGFSLYMLRAIISGRGDEVIELA
KTNWLR

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



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 strain K12 poxB full length protein (1-572aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. poxB, also known as pyruvate oxidase, 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.