

Recombinant Human PCK2 Protein Product Manual

1. Product Basic Information

Product No.: REP07743

Protein Name: Pepck-Pep Carboxykinase (PCK2)

Aliases: PEPCK; PEPCK2; mtPCK2; PEPCK-PEP carboxykinase; phosphopyruvate carboxylase; serine/threonine-protein kinase PCK2; epididymis secretory sperm binding protein

UniProt ID: Q16822

UniProt Link: <https://www.uniprot.org/uniprotkb/Q16822/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (33-640aa)

Molecular Weight: 74.0 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (33-640aa)

LSGDLGQLPTGIRDFVEHSARLCQPEGIHCIDGTEAENTATLTLLEQQGLIRKLPKYN
NCWLARTDPKDVARVESKTVIVTPSQRDTVPLPPGGARGQLGNWMSPADRFQRAV
DERFPGCMQGRMTMYVLPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVL
QALGDGDFVKCLHSVGQPLTGQGEPVSQWPCNPEKTLIGHVPDQREIISFGSGYG
GNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKRYVAAAFPSACGKTNL
AMMRPALPGWKVECVGDDIAWMRFDSEGRLRAINPENGFFGVAPGTSATTNPNA
MATIQSNTIFTNVAETS DGGVYWEGIDQPLPPGVTVTSWLGKPKWPGDKEPCAHP
NSRFCAPARQCPIMDPAWEAPEGVPIDAIIFGRRPKGVPLVYEAFNWRHGVFVGS
AMRSESTAAAEHKGKIIIMHDPFAMRPFFGYNFGHYLEHWLSMEGRKGAQLPRIFHV
NWFRRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVKPEGALDLSGL
RAIDTTQLFSLPKDFWEQEVDRDIRSYL TEQVNQDLPKEVLAELEALERRVHKM

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)



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 PCK2 full length of mature protein protein (33-640aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. PCK2, also known as PEPCK or PEPCK2 or mtPCK2, 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.