



# Recombinant Bovine ACHE Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP06019

**Protein Name:** Yt Blood Group (ACHE)

**Aliases:** YT; ACEE; ARACHE; N-ACHE; Yt blood group; acetylcholinesterase; acetylcholinesterase (Yt blood group); apoptosis-related acetylcholinesterase; acetylcholinesterase (Cartwright blood group)

**UniProt ID:** P22303

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P22303/entry>

**Species Source:** Bos taurus (Bovine)

**Expression System:** E.coli

**Protein Length:** Full Length of Mature Protein (31-613aa)

**Molecular Weight:** 91.5kDa

**Protein Tag:** N-terminal GST-tagged

## 2. Amino Acid Sequence (31-613aa)

EGPEDPELLVMVRGGRLRGLRLMAPRGPVSAFLGIPFAEPPVGPRRFLPPEPKRP  
WPGVLNATAFQSVCYQYVDLTLYPGFEGTEMWNPNNRELSCLYLNWVTPYPRPS  
SPTPVLVWIYGGGFYSGASSLDVYDGRFLTQAEGTVLVSMNYRVGAFGFLALPGS  
REAPGNVGLLDQRLALQWVQENVAFFGGDPTSVTLFGESAGAASVGMHLLSPPSR  
GLFHRAVLQSGAPNGPWATVGVGEARRRATLLARLVGCPPGGAGGNDTELVA  
RARPAQDLVDHEWRVLPQESVFRFSFVPVVDGDFLSDTPEALINAGDFHGLQVLVG  
VVKDEGSYFLVYGAPGFSKDNESLISRAQFLAGVRVGPQASDLAAEAVVLHYTDW  
LHPEDPARLREALSDVVGDNVVCVPAQLAGRLAAQGARVYAYIFEHRASTLSWPL  
WMGVPHGYEIEFIFGLPLEPSLNYTIEERTFAQRLMRYWANFARTGDPNDPRDPKA  
PQWPPYTAGAQQYVSLNLRPLEVRRGLRAQACAFWNRFLPKLLSATDTLDEAERQ  
WKAEFHRWSSYMHVWKNQFDHYSKQDRCSDL

## 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 Bovine ACHE full length of mature protein protein (31-613aa) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. ACHE, also known as YT or ACEE or ARACHE, 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.