

PRODUCT INFORMATION

ACHE Target

Synonyms ACEE; ARACHE; N-ACHE; YT

Recombinant Human ACHE Protein with C-Description

terminal 6×His tag

Delivery In Stock **Uniprot ID** P22303 **Expression Host HEK293**

Tag C-6×His Tag

Molecular Characterization

Storage & Shipping

Background

ACHE(Glu32-Leu614) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight**

65.4 kDa after removal of the signal peptide. The apparent molecular mass of ACHE-His is

approximately 55-70 kDa due to glycosylation. The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & Reconstitution

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. It is also found on the red blood cell membranes, where it

constitutes the Yt blood group antigen.
Acetylcholinesterase exists in multiple molecular forms which possess similar catalytic properties, but differ in their oligomeric assembly and mode of cell attachment to the cell surface. It is encoded by the single ACHE gene, and the structural diversity in the gene products arises from alternative mRNA splicing, and post-

translational associations of catalytic and structural subunits. The major form of

acetylcholinesterase found in brain, muscle and other tissues is the hydrophilic species, which forms disulfide-linked oligomers with collagenous, or lipid-containing structural subunits. The other, alternatively spliced form, expressed primarily in the erythroid tissues, differs at the C-terminal end, and contains a cleavable hydrophobic peptide with a GPI-anchor site. It associates with the membranes through the phosphoinositide (PI) moieties added post-translationally. AChE activity may constitute a sensitive biomarker of RBC

ageing in vivo, and thus, may be of aid in understanding the effects of transfusion[provided

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by RefSeq, Sep 2019]

Research use only Usage

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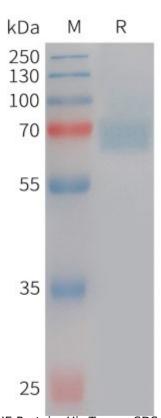


Figure 1.Human ACHE Protein, His Tag on SDS-PAGE under reducing condition.

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