

Recombinant Chicken Acetylcholinesterase (ACHE)

Cat. No.: AP4C630

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Chicken Acetylcholinesterase (ACHE) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 83.0 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Chicken
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	83.0 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Chicken Acetylcholinesterase (ACHE) is a crucial enzyme involved in the hydrolysis of acetylcholine (ACh), a neurotransmitter that plays a significant role in synaptic transmission. ACHE is primarily found at postsynaptic neuromuscular junctions, particularly in muscles and nerves, where it terminates neuronal signaling by breaking down ACh into acetic acid and choline. This process is essential for preventing excessive muscle contraction and maintaining normal nerve function. In addition to its role in the nervous system, ACHE has been implicated in non-neuronal functions, such as skeletal development and immune regulation. Abnormal expression or inhibition of ACHE can lead to various disorders, including muscle paralysis and neurodegenerative diseases.

Protein	Chicken Acetylcholinesterase (ACHE)
Protein Synonym	AChE; ACHE
Gene ID	396388
EC No.	P36196

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.