

Butyrylcholine Esterase Active Protein | BCHE active protein

Recombinant Human Butyrylcholine Esterase Protein

CATALOG #
AAA174587

HOST
Human Cells

PRODUCT SYNONYMS

Butyrylcholine Esterase; Recombinant Human Butyrylcholine Esterase Protein; Cholinesterase; Acylcholine Acylhydrolase; Choline Esterase II; Pseudocholinesterase; BCHE; CHE1; BCHE active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Liquid; Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.
Sequence Length	602
Species	Human
Endotoxin	<1.0 EU per µg as determined by LAL test.
Sequence	Glu29-Leu602
Tag	C-6His
Activity	Measured by its ability to cleave Butyrylthiocholine. The specific activity is >50,000 pmoles/min/µg.
Preparation and Storage	Upon receipt, immediately store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BCHE active protein

Protein Construction: Recombinant Human Butyrylcholine Esterase is produced by our Mammalian expression system and the target gene encoding Glu29-Leu602 is expressed with a 6His tag at the C-terminus.

Background: Butyrylcholine Esterase (BCHE) is a secreted protein that belongs to the type-B carboxylesterase/lipase family. BCHE is a major acetylcholine hydrolyzing enzyme in the circulation. It is detected in blood plasma and present in most cells except erythrocytes. BCHE is an esterase with broad substrate specificity. BCHE can contribute to the inactivation of the neurotransmitter acetylcholine. BCHE can degrade a large number of neurotoxic organophosphate esters. Thus, it plays important pharmacological and toxicological roles and is thought to be involved in the pathological progression. Defects in BCHE are the cause of butyrylcholinesterase deficiency (BChE deficiency) which is a metabolic disorder characterized by prolonged apnoea after the use of certain anesthetic drugs, including the muscle relaxants succinylcholine and other ester local anesthetics.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557351
NCBI GeneID	590
NCBI Accession #	NP_000046.1
NCBI GenBank Nucleotide #	NM_000055.4
UniProt Accession #	P06276; A8K7P8

Molecular Weight	Molecular Mass: 66.1kDa Actual Protein Molecular Mass: 90kDa
NCBI Official Full Name	cholinesterase
NCBI Official Synonym Full Names	butyrylcholinesterase
NCBI Official Symbol	BCHE
NCBI Official Synonym Symbols	E1; CHE1; CHE2; BCHED
NCBI Protein Information	cholinesterase
UniProt Protein Name	Cholinesterase
UniProt Gene Name	BCHE
UniProt Synonym Gene Names	CHE1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-cells-active-protein/butyrylcholine-esterase/174587>