

BCHE / Butyrylcholinesterase Active Protein | BCHE active protein

Recombinant Human BCHE / Butyrylcholinesterase Protein (His tag)

CATALOG #
AAA22092

HOST
HEK293 Cells

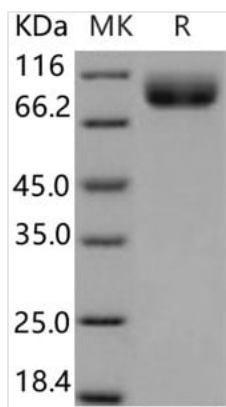
PRODUCT SYNONYMS

BCHE / Butyrylcholinesterase; Recombinant Human BCHE / Butyrylcholinesterase Protein (His tag); CHE1;CHE2;E1; BCHE active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 97 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile 25mM Tris, 150mM NaCl, pH7.0, 5% Trehalose, 5% Mannitol, 0.01%Tween-80.
Sequence Positions	Met 1-Leu 602
Application Notes	The recombinant human BCHE consists of 585 amino acids and has a predicted molecular mass of 66.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh BCHE is approximately 85-95 kDa due to glycosylation.
Species	Human
Tag	C-His
Bio activity	Measured by its ability to cleave Butyrylthiocholine. The specific activity is > 50,000 pmoles/min/ug.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water(80ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BCHE active protein	Butyrylcholinesterase (BCHE), also known as cholinesterase or BuChE, is an enzyme defined as "pseudo" or "nonneuronal" cholinesterase. Butyrylcholinesterase (BCHE) is widely distributed in the nervous system as well as blood plasma. It is constitutively similar to the neuronal acetylcholinesterase, and is a non-specific cholinesterase which hydrolyses many different choline esters. Butyrylcholinesterase (BCHE) is a glycoprotein of 4 identical subunits, that were arranged as a dimer of dimers with each dimer composed of two identical subunits joined by interchain disulfide bonds. Butyrylcholinesterase (BCHE) behaves principally similar to the true enzyme and thus can play a similar role in nerve conduction, although it participates probably only in relatively slow conductive processes and could be involved in other nervous system functions and in neurodegenerative diseases. It can hydrolyze toxic esters such as cocaine or scavenge organophosphorus pesticides and nerve agents. Purified human serum cholinesterase combines in its active surface an anionic and an esteratic site, similar to true cholinesterase. It has been demonstrated that butyrylcholinesterase (BCHE) may have a greater role in cholinergic transmission than previously surmised, making BChE inhibition an important therapeutic goal in Alzheimer's disease.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557351
NCBI GeneID	590
NCBI Accession #	NP_000046.1
NCBI GenBank Nucleotide #	NM_000055.3
Molecular Weight	66.5 kDa
NCBI Official Full Name	cholinesterase
NCBI Official Synonym Full Names	butyrylcholinesterase
NCBI Official Symbol	BCHE
NCBI Official Synonym Symbols	E1; CHE1; CHE2
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://www.aaabiotech.com/hek293-active-protein/bche-butrylcholinesterase/22092>