Datasheet for ABIN7194451

Butyrylcholinesterase Protein (BCHE) (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	Butyrylcholinesterase (BCHE)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Butyrylcholinesterase protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Butyrylcholinesterase/BCHE Protein (His Tag)(Active)
Sequence:	Met 1-Leu 603
Characteristics:	A DNA sequence encoding the mouse BCHE (NP_033868.3) (Met 1-Leu 603) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave Butyrylthiocholine. The specific activity is > 70 nmol/min/µg.

Target Details

Target:	Butyrylcholinesterase (BCHE)
Alternative Name:	Butyrylcholinesterase/BCHE (BCHE Products)

Target Details

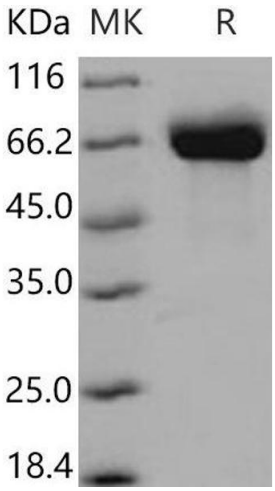
Background:	Background: Butyrylcholinesterase (BCHE), also known as cholinesterase or BuChE, is an enzyme defined as "pseudo" or "non-neuronal" cholinesterase. Butyrylcholinesterase (BCHE) is widely distributed in the nervous system as well as blood plasma. It is constitutively similar to the neuronal 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. Synonym: C730038G20Rik
Molecular Weight:	66.7 kDa
NCBI Accession:	NP_033868
Pathways:	Peptide Hormone Metabolism

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 25 mM Tris, 100 mM NaCl, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.