

Recombinant Human BCHE, His-tagged

Cat. No. BCHE-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human BCHE (amino acids 29 – 568) with C-terminal His-tag was produced from the synthetic gene in Trichoplusia ni larval expression system.
Species	Human
Source	Trichoplusia Ni Larval
ProteinLength	29-568 a.a.
Description	BCHE is an esterase with broad substrate specificity. It contributes to the inactivation of the neurotransmitter acetylcholine. Can degrade neurotoxic organophosphate esters.
Form	1 mg/mL in 50 mM Tris, 600 mM NaCl, 15% (w/v) glycerol pH 8.0, 0.2m filtered
AA Sequence	<p>DLEDDIIIAT KNGKVRGMNL TVFGGTVTAF LGIPYAQPPL GRLRFKKPQS LTKWSDIWNA TKYANSCCQN IDQSFPGFHG SEMWNPNTDL SEDCLYLNWV IPAPKPKNAT VLIWIYGGGFQTGTSSLHVY DGKFLARVER VIVVSMNYRV GALGFLALPG NPEAPGNMGL FDQQLALQWV QKNIAAFGGN PKSVTLFGES AGAASVSLHL LSPGSHSLFT RAILQSGSFN APWAVTSLYEARNTLNLA LTGCSRENET EIKCLRNDK PQEILLNEAF VVPYGTPLSV NFGPTVDGDF LTDMPDILLE LGQFKKTQIL VGVNKDEGTA FLVYGAPGFS KDNNSIITRK EFQEGLKIFFPGVSEFGKES ILFHYTDWVD DQRPENYREA LGDVVGDYNF ICPALEFTKK FSEWGNAFF YYFEHRSSKL PWPEWMGVMH GYEIEFVFG PLERRDNYTK AEEILSRSIV KRWANFAKYGNPNETQNNST SWPVFKSTEQ</p>

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KYLTLNTEST RIMTKLRAQQ CRFWTSFFPK VLEMTGNIDE AEGRGSHHHH HH

Purity >90% as determined by SDS-PAGE

Storage Store at -80°C or colder upon arrival. Freeze-thaw cycles of this product should be avoided.

GENE INFORMATION

Gene Name [BCHE butyrylcholinesterase \[Homo sapiens \]](#)

Official Symbol BCHE

Synonyms E1; CHE1; CHE2; cholinesterase; cholinesterase 1; choline esterase II; pseudocholinesterase; butyrylcholine esterase; cholinesterase (serum) 2; acylcholine acylhydrolase

Gene ID [590](#)

mRNA Refseq [NM_000055](#)

Protein Refseq [NP_000046](#)

MIM [177400](#)

UniProt ID [P06276](#)

Chromosome Location 3q26.1-q26.2

Pathway Glycerophospholipid biosynthesis, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Phospholipid metabolism, organism-

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specific biosystem

Function

acetylcholinesterase activity; catalytic activity; enzyme binding

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