

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	DLEDDIIAT KNGKVRGMNL TVFGGTVTAF LGIPYAQPPL GRLRFKKPQS LTKWSDIWNA TKYANSCCQN IDQSFPGFHG SEMWNPNTDL SEDCLYLNWW IPAPKPKNAT VLIWIYGGGFQTGTSSLHVV DGKFLARVER VIVVSMNYRV GALGFLALPG NPEAPGNMGL FDQQLALQWV QKNIAAFGGN PKSVTLFGES AGAASVSLHL LSPGSHSLFT RAILQSGSFN APWAVTSLYEARNRTLNLAK LTGCSRENET EIIKCLRNDK PQEILLNEAF VVPYGTPLSV NFGPTVDGDF LTDMPDILLE LGQFKKTQIL VGVNKDEGTA FLVYGAPGFS KDNNSIITRK EFQEGLKIFFPGVSEFGKES ILFHYTDWVD DQRPENYREA LGDVVG DYNF ICPALEFTKK FSEWGNNAFF YYFEHRSSKL PWPEWMGVMH GYEIEFVFG PLERRDNYTK AEEILSRIV KRWANFAKYGNPNETQNNST SWPVFKSTEQ

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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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