

Native Human Butyrylcholinesterase

Cat. No. BCHE-5291H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human BCHE expressed in Human Serum is a major acetylcholine hydrolyzing enzyme found in the blood circulation.
Species	Human
Source	Human Serum
Description	Butyrylcholinesterase (also known as pseudocholinesterase, plasma cholinesterase, BCHE, or BuChE) is a non-specific cholinesterase enzyme that hydrolyses many different choline esters. In humans, it is found primarily in the liver and is encoded by the BCHE gene. Butyrylcholine is a synthetic compound and does not occur in the body naturally. It is used as a tool to distinguish between acetyl- and BCHE.
Form	Lyophilized from 0.02 M NH ₄ HCO ₃ Buffer.
Biological Activity	> 100 U/mg protein. One unit will hydrolyze 1.0 μmole of butyrylcholine to choline and butyrate per minute at pH 8.0 at 37°C.
Storage	Store at -20°C. Stable for 1 year. Avoid repeated freeze-thaw cycles.
Pathways	Diabetes pathways; Irinotecan Pathway; Synthesis

GENE INFORMATION

Gene Name	BCHE butyrylcholinesterase [Homo sapiens]
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Official Symbol	BCHE
Synonyms	BCHE;butyrylcholinesterase; E1; CHE1; cholinesterase; cholinesterase 1;OTTHUMP00000212636; choline esterase II; pseudocholinesterase; butyrylcholineesterase; acylcholine acylhydrolase
Gene ID	590
mRNA Refseq	NM_000055
Protein Refseq	NP_000046
MIM	177400
UniProt ID	P06276
Chromosome Location	3q26.1-q26.2
Function	acetylcholinesteraseactivity; beta-amyloid binding; carboxylesterase activity; catalyticactivity; choline binding; cholinesterase activity; enzyme binding; hydrolaseactivity

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