

Active Recombinant Human BCHE Protein, His-Tagged

Cat. No. BCHE-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BCHE Protein, His-Tagged was expressed in CHO cell
Species	Human
Source	CHO
Description	This gene encodes a cholinesterase enzyme and member of the type-B carboxylesterase/lipase family of proteins. The encoded enzyme exhibits broad substrate specificity and is involved in the detoxification of poisons including organophosphate nerve agents and pesticides, and the metabolism of drugs including cocaine, heroin and aspirin. Humans homozygous for certain mutations in this gene exhibit prolonged apnea after administration of the muscle relaxant succinylcholine.
Form	Liquid
Bio-activity	Measured by its ability to cleave Butyrylthiocholine. The specific activity is >50,000 pmol/min/μg, as measured under the described conditions.
Molecular Mass	66 kDa
N-terminal Sequence Analysis	Glu29
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	BCHE butyrylcholinesterase [Homo sapiens (human)]
Official Symbol	BCHE
Synonyms	E1; CHE1; CHE2; BCHED
Gene ID	590
mRNA Refseq	NM_000055.4
Protein Refseq	NP_000046.1
MIM	177400
UniProt ID	P06276

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