



Recombinant Human BCHE (C-6His)

Catalog #	EPT268
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Butyrylcholine Esterase is produced by our Mammalian expression system and the target gene encoding Glu29-Leu602 is expressed with a 6His tag at the C-terminus.
Accession	P06276
Synonyms	Cholinesterase; Acylcholine Acylhydrolase; Butyrylcholine Esterase; Choline Esterase II; Pseudocholinesterase; BCHE; CHE1
Mol Mass	66.12 KDa
AP Mol Mass	90 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin	Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
FORMULATION	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.5.





RECONSTITUTION

SHIPPING

The product is shipped on dry ice/polar packs.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt.

Store at $\leq -70^{\circ}\text{C}$, stable for 3 months under sterile conditions after opening.

Please minimize freeze-thaw cycles.

BACKGROUND

Butyrylcholine Esterase (BCHE) is a secreted protein that belongs to the type-B carboxylesterase/lipase family. BCHE is a major acetylcholine hydrolyzing enzyme in the circulation. It is detected in blood plasma and present in most cells except erythrocytes. BCHE is an esterase with broad substrate specificity. BCHE can contribute to the inactivation of the neurotransmitter acetylcholine. BCHE can degrade a large number of neurotoxic organophosphate esters. Thus, it plays important pharmacological and toxicological roles and is thought to be involved in the pathological progression. Defects in BCHE are the cause of butyrylcholinesterase deficiency (BChE deficiency) which is a metabolic disorder characterized

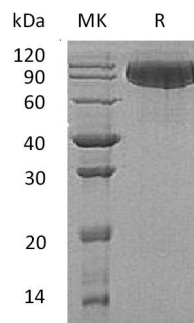




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by prolonged apnoea after the use of certain anesthetic drugs, including the muscle relaxants succinylcholine and other ester local anesthetics.

SDS-PAGE



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