

Butyrylcholinesterase/BCHE Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72859
Synonyms:	Cholinesterase; Acylcholine acylhydrolase; Choline esterase II; BCHE
Species:	Mouse
Source:	HEK293
Accession:	Q03311 (H28-L603)
Gene ID:	12038
Molecular Weight:	60-70 kDa

PROPERTIES

AA Sequence

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HTEEDFIITT   KTGRVVRGLSM   PVLGGTVTAF   LGIPYAQPPL
GSLRFKKPQP   LNKWPD IHNA   TQYANSCYQN   IDQAFPGFQG
SEMWNPNNTNL  SEDCLYLNWV   IPVPKPKNAT   VMVWIYGGGF
QTGTSSLPVY   DGKFLARVER   VIVVSMNYRV   GALGFLAFPG
NPDAPGNMGL   FDQQLALQWV   QRNIAAFGGN   PKSITIFGES
AGAASVSLHL   LCPQSYPLFT   RAILESGSSN   APWAVKHPEE
ARNRTLTLAK   FTGCSKENEM   EMIKCLRSKD   PQEILRNERF
VLPSSDSILSI  NFGPTVDGDF   LTDMPHTLLQ   LGKVKKAQIL
VGVNKDEGTA   FLVYGAPGFS   KDNDSLITRK   EFQEGLNMYF
PGVSR LGKEA   VLFYVDWLG   EQSPEVYRDA   LDDVIGDYN I
ICPALEFTKK   FAELENAFF   YFFEHRSSKL   PWPEWMGVMH
GYEIEFVFG L   PLGRRVNYTR   AEEIFSRSIM   KTWANFAKYG
HPNGTQGNST   MWPVFTSTEQ   KYLTLNTEKS   KIYSKLRAPQ
CQFWRLFFPK   VLEMTGDIDE   TEQEWKAGFH   RWSNYMMDWQ
NQFNDYTSKK   E S C T A L
  
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Biological Activity	Measured by its ability to cleave Butyrylthiocholine and the specific activity is > 70 nmol/min/μg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 100 mM NaCl, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Butyrylcholinesterase (BCHE) protein, functioning as an esterase, exhibits a broad substrate specificity, playing a pivotal role in the inactivation of the neurotransmitter acetylcholine. Beyond its involvement in acetylcholine metabolism, this enzyme demonstrates the capacity to degrade neurotoxic organophosphate esters, showcasing its significance in detoxification processes. The versatility of BCHE underscores its critical function in maintaining neurotransmitter homeostasis and safeguarding against the harmful effects of certain neurotoxic compounds.

Caution: Product has not been fully validated for medical applications. For research use only.

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