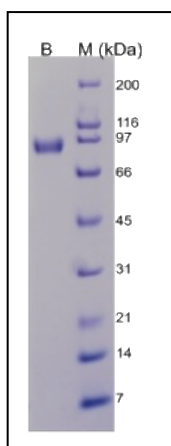


Recombinant BChE Protein

Catalog Number	Size
AG421-10	10ug
AG421-25	25ug
AG421-B	Bulk

Description

Recombinant Butyrylcholinesterase (BChE or CHE1) was expressed in CHO-K1 cells and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 610 (602+8) amino acids with a 6His tag at the C-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 80kDa.



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MHSKVTIICIRFLFWFLLLCMLIGKSHTEDDII IATKNGKVRGMNLTVF
GGTVTAFLGIPYAQPPLGRLRFKKPQSLTKWSDIWNATKYANSCCQDID
QSFPGFHGMSEMNPNNTDLSLCLYLNWIPAPKPKNATVLIWIYGGGFQ
TGTSSLHVDGKFLARVERVIVVSMNYRVGALGFLALPGNPEAPGNMGL
FDQQLALQWVQKNIAAFGGNPKSVTLFGESAGAASVSLHLLSPGSHSLF
TRAILQSGSFNAPWAVTSLYEARNRTLNLAKLTGCSRENETEIIKCLRN
KDPQEILLNEAFVVPYGTPLSVNFGPTVDGDFLTDMPDILLELGQFKKT
QILVGVNKDEGTAFLVYGAPGFSKDNNSIITRKEFQEGLIKIFFPGVSEF
GKESILFHYTDWVDDQRPENYREALGDVVGDFNFCPALEFTKKFSEWG
NNAFFYYFEHRSSKLPWPEWMGMHGYEIEFVFGLPLERRDNYTKAEEI
LSRSIVKRWANFAKYGNPNETQNNSTSWPVFKSTEQKYLTLNTESTRIM
TKLRAQQCRFWTSFFPKVLEMTGNIDEAEWEWKAGFHRWNNYMDWKQ
FNDYTSKKESCVGLVDHHHHHH*
  
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Accession Number

NM_000055

Molecular Mass

Approximately 80kDa.

Purity

≥90%, as determined by SDS-PAGE.

Biological Activity

BChE is a major acetylcholine hydrolyzing enzyme detected in blood plasma and in most cell types. It is involved in the detoxification of poisons including organophosphate nerve agents and pesticides, and the metabolism of drugs including cocaine, heroin and aspirin. Recombinant BChE protein can be used for screening its inhibitors and as the standard for activity assays.

Formulation

20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl, 1mM DTT and 1mM EDTA.

Storage

The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. **(Avoid repeated freeze-thaw cycle)**

FOR RESEARCH USE ONLY!!!