

**Recombinant Human BChE (CHO-K1)**

Catalog Number	Size
AG421-20	20ug
AG421-100	100ug
AG421-B	Bulk

Specifications and Use**Description**

Recombinant human butyrylcholinesterase (BChE) produced from conditioned medium of stably-transfected CHO-K1 cells is a tetramer form associated with a proline-rich attachment domain (PRAD). Each mature polypeptide contains 574 amino acids having a predicted molecular mass of approximately 65kD, but migrates with an approximate molecular mass of 280kD in non-reduced SDS gel.

EDDIIIATKNGKVRGMNLTVFGGTVTAFLGIPYAQPPLGRLRFKKPQSLT
KWSDIWNATKYANSCCQNIDQSFPGFHGSEMWNPNNTDLSEDCLYLNWVWIP
APKPKNATVLIWIYGGGFQTGTSSLHVYDGKFLARVERVIVVSMNYRVGA
LGFLALPGNPEAPGNMGLFDQQLALQWVQKNIAAFGGNPKSVTLFGESAG
AASVSLHLLSPGSHSLFTRAILQSGSFNAPWAVTSLYEARNRTLNLAKLT
GCSRENETEIIKCLRNDPQEILLNEAFVVPYGTPLSVNFGPTVDGDFLT
DMPDILLELGQFKKTQILVGVNKDEGTAFLVYGAPGFSKDNNSIITRKEF
QEGLKIFFPGVSEFGKESILFHYTDWVDDQRPENYREALGDVVGDYNFIC
PALEFTKKFSEWGNNAFFYYFEHRSSKLPWPEWMGMHGYEIEFVFGPLPL
ERRDNYTKAEIILSRIVKRWANFAKYGNPNETQNNSTSWPVFKSTEQKY
LTLNTESTRIMTKLRAQQCRFWTSFFPKVLEMTGNIDEAEWEWKAGFHRW
NNYMMDWKNQFNDYTSKKESCVGL

Accession Number

NM_000055

Source

CHO-K1

Molecular Mass

~65kDa

Purity

≥90%, as determined by SDS-PAGE

Biological Activity

Butyrylcholinesterase is a serine hydrolase and has a potential role in maintaining and regulating the activity of neurotransmitter acetylcholine in the central nervous system. Recombinant human BChE protein has similar pharmacokinetic and protective properties to plasma-derived BChE and is suitable for other related function assays.

Formulation

20mM Tris-Cl (pH7.9), 20% Glycerol, 100mM NaCl, 1mM DTT and 0.5mM EDTA

Storage

The protein sample can be stored under sterile conditions at 2- 8oC for one month or at -70oC for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles**Special Notes****FOR RESEARCH ONLY**