

## ARG81593 Human Butyrylcholinesterase ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81593-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81593-002	Standard	2 X 40 ng/vial	4°C
ARG81593-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81593-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81593-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81593-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81593-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81593-008	25X Wash buffer	20 ml	4°C
ARG81593-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81593-010	STOP solution	10 ml (Ready to use)	4°C
ARG81593-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81593 Human Butyrylcholinesterase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Butyrylcholinesterase in serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Butyrylcholinesterase
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	312 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Standard Range	625 - 40000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.6% Inter-Assay CV: 7.2%
Alternate Names	Butyrylcholine esterase; CHE2; CHE1; Choline esterase II; EC 3.1.1.8; Acylcholine acylhydrolase; E1; Cholinesterase; Pseudocholinesterase

## Application Instructions

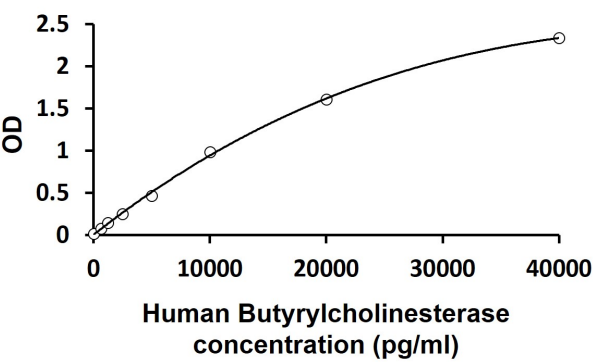
Assay Time	~ 5 hours
------------	-----------

## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	BCHE
Gene Full Name	butyrylcholinesterase
Background	Mutant alleles at the BCHE locus are responsible for suxamethonium sensitivity. Homozygous persons sustain prolonged apnea after administration of the muscle relaxant suxamethonium in connection with surgical anesthesia. The activity of pseudocholinesterase in the serum is low and its substrate behavior is atypical. In the absence of the relaxant, the homozygote is at no known disadvantage. [provided by RefSeq, Jul 2008]
Function	Esterase with broad substrate specificity. Contributes to the inactivation of the neurotransmitter acetylcholine. Can degrade neurotoxic organophosphate esters. [UniProt]
Highlight	Related products: <a href="#">Butyrylcholinesterase antibodies</a> ; <a href="#">Butyrylcholinesterase ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	N-glycosylated. No other PTM detected (PubMed:20946535). The major N-glycan structures are of the complex diantennary type with 1 and 2 N-acetylneuraminic acid molecules (Neu5Ac) making up approximately 33% and 47% of the total N-glycans, respectively. Only low amounts of fucosylated diantennary N-glycans are detected (approximately 2%). Triantennary N-glycans with or without fucose amount to approximately 13%, whereas 5% of the total N-glycans are of the oligomannosidic or hybrid type. [UniProt]



ARG81593 Human Butyrylcholinesterase ELISA Kit standard curve image

ARG81593 Human Butyrylcholinesterase ELISA Kit results of a typical standard run with optical density reading at 450 nm.