

BCHE

Native Horse Butyrylcholinesterase

Catalog No.	CSI10407 CSI10408	Quantity:	5 KU 15 KU
Alternate Names:	Carboxylic ester hydrolase, butyrylcholinesterase, BCHE		
Description:	Butyrylcholinesterase (BCHE, or BuChE), is a non-specific cholinesterase enzyme that hydrolyses many different choline esters. In humans, it is found primarily in the liver and is encoded by the BCHE gene. It is very similar to the neuronal acetylcholinesterase, which is also known as RBC or erythrocyte cholinesterase. The term "serum cholinesterase" is generally used in reference to a clinical test that reflects levels of both of these enzymes in the blood. Assay of butyrylcholinesterase activity in plasma can be used as a liver function test as both hypercholinesterasemia and hypocholinesterasemia indicate pathological processes.		
UniProt ID:	Q9N1N9		
Source:	Horse serum		
Formulation:	Lyophilized, salt free powder		
Protein Content:	0.20 mg protein/mg solid ($E^{0.1\%}_{280nm} = 1.36$) lot specific		
Biological Activity:	100 Units/mg solid using Siemens Clinical Chemistry System One unit/ml pseudocholinesterase activity corresponds to a change of 0.2 milliabsorbance units (mA) per minute at 37°C. (Acylycholine + H ₂ O = choline + carboxylic acid)		
Specific Activity:	480 Units/mg protein, lot specific		
Reconstitution:	Reconstitute to 5 mg/ml with 0.05M Tris-HCl, pH 7.3-7.5 Protein should be kept within the concentration range of 4-5 mg/ml.		
Storage & Stability:	Store unopened lyophilized protein at -20°C to -80°C for at least 1 year.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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