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## Product Datasheet

### **Native Equine Butyrylcholinesterase, CAS [[9001-8-5]] CRM-NATE-0092**

Article Name	Native Equine Butyrylcholinesterase, CAS [[9001-8-5]]
Biozol Catalog Number	CRM-NATE-0092
Supplier Catalog Number	NATE-0092
Alternative Catalog Number	CRM-NATE-0092-1
Manufacturer	Creative BioMart
Category	Biochemikalien
Product Description	Butyrylcholinesterase (BChE) is a serine hydrolase that is structurally similar to acetylcholinesterase (AChE), but differs in substrate specificities and inhibitor sensitivities. BChE can, unlike AChE, efficiently hydrolyze larger esters of choline ...
Concentration	> 50 U/mg
CAS Number	[9001-8-5]

Application Notes

Butyrylcholinesterase from equine serum has been used in a microcalorimetric study of the inhibition of butyrylcholinesterase by paraoxon. This enzyme has also been used in a study to investigate the synthesis and inhibition of cholinergic enzymes. Selective inhibition of BChE activity can be used in the detection of organophosphates. Its use in the treatment of organophosphate toxicity has shown clinical potential, as there is a correlation between the blood level of BChE in humans and the degree of protection against toxic nerve agents. There has also been an interest in the roles of cholinesterases with regard to Alzheimers disease. Investigations into selective inhibitors may provide a clearer picture of the physiological role of BChE in both healthy and diseased individuals. This product has been used for the screening of cholineesterase inhibitors in selected fruits and vegetables, for restoring cognitive function and improving memory. It has also been used to develop a butyrylcholinesterase and choline oxidase immobilized bio-sniffer for the detection of nicotine. Nicotine inhibits BChE activity. A decrease in the byproducts of BChE activity reflects the volume of nicotine.