

CAT

Native Human Catalase, Erythrocyte

Catalog No.	CSI19798A CSI19798B	Quantity:	1.0 mg 5 mg
Description:	<p>Composed of four identical subunits each with a molecular weight of 58 kDa. Catalyzes the reaction $\text{H}_2\text{O}_2 \rightarrow 2 \text{H}_2\text{O} + \text{O}_2$</p> <p>Catalase, along with the superoxides dismutase and glutathione peroxidase, controls the levels of oxygen-derived free radicals in mammalian cells, and together may function as a somatic oxidant defense.</p>		
UniProt ID:	P04040		
Gene ID:	847		
Source:	Human erythrocytes		
Molecular Weight:	244 kDa		
Formulation:	Liquid in 0.05M Tris-HCl, pH8.0		
Purity:	>95% by SDS-PAGE analysis		
Concentration:	≥ 5.0 mg/ml, lot specific		
Extinction Coefficient:	$E^{0.1\%}_{280\text{nm}} = 1.39$		
Specific Activity:	> 50,000 units/mg. One unit is equal to the amount of enzyme that will decompose one μmole of hydrogen peroxide per minute at 25°C, pH 7.4		
Storage & Stability:	Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Certification:	Prepared from whole blood shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.		

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



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