

## AMY2A, AMY2B

### Native Human Alpha Amylase Pancreatic

<b>Catalog No.</b>	CSI10395A CSI10395B	<b>Quantity:</b>	500 U 1000 U
<b>Alternate Names:</b>	AMY2, PA, AMY3, 1,4-a-D-glucan glucanohydrolase		
<b>Description:</b>	Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas.		
<b>Concentration:</b>	≥ 1.0 mg protein/ml ( $A_{280}$ , $E^{0.1\%}=2.33$ )		
<b>Gene ID:</b>	279, 280		
<b>Source:</b>	Human Pancreas		
<b>Formulation:</b>	Liquid solution in 100 mM Tris-HCl + 150 mM NaCl + 1 mM calcium chloride, pH 7.5		
<b>Biological Activity:</b>	≥ 400 U/mL (Dimension® Clinical Chemistry System).. One unit will catalyze the hydrolysis of one $\mu$ M of 2-chloro-4-nitrophenyl- $\alpha$ -D-maltotrioxide to yield 2-chloro-4-nitrophenol per minute at 37°C.		
<b>Specific Activity:</b>	≥ 100 U/mg protein		
<b>Contaminants:</b>	Lipase: ≤ 0.1% GOT/AST: ≤ 0.01% ALP: ≤ 0.01% Protease: ≤ 0.01%		
<b>Storage &amp; Stability:</b>	Liquid is stable for 2 year at 2-8°C.		

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