

Native Human AMY2A

Cat. No. AMY2A-8353H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human AMY2A was purified from Pancrease.
Species	Human
Source	Pancreas
Description	Alpha amylase is a polysaccharide-hydrolyzing enzyme secreted in the pancreas and salivary glands. Increased serum levels are seen in acute pancreatitis: the amount of amylase in the blood rises within 3 to 6 hours of onset, peaking at up to 40 times the normal level (after 20 to 30 hours) with normal levels re-established within 2 to 8 days. High blood amylase levels may also be due to impaired glomerular filtration leading to reduced renal elimination.
Form	Liquid in 0.1M TRIS buffer, pH 7.5, containing 0.15M NaCl, 1mM calcium chloride, 1mM benzamidine and 1mM pefabloc.
Unit Definition	One unit will catalyse the hydrolysis of one micromole of malto-pentaoase, which through coupled reactions results in the formation of 5 micromoles of glucose-6-phosphate per minute at 37°C. Measured at 340nm as an equimolar amount of NADH produced by a coupled reaction.

GENE INFORMATION

Gene Name	AMY2A amylase, alpha 2A (pancreatic) [Homo sapiens]
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Official Symbol	AMY2A
Synonyms	AMY2A; amylase, alpha 2A (pancreatic); AMY2, amylase, alpha 2A; pancreatic; pancreatic alpha-amylase; glycogenase; alpha-amylase; found in the pancreas; pancreatic amylase 2A; pancreatic amylase alpha 2A; amylase, pancreatic, alpha-2A; 1,4-alpha-D-glucan
Gene ID	279
mRNA Refseq	NM_000699
Protein Refseq	NP_000690
MIM	104650
UniProt ID	P04746
Chromosome Location	1p21.1
Pathway	Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; Digestion of dietary carbohydrate, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem; Pancreatic secretion, organism-specific biosystem;
Function	alpha-amylase activity; calcium ion binding; chloride ion binding; hydrolase activity, acting on glycosyl bonds;