

Human alpha-amylase Reference Standard

Cat. No. AMY2A-16H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Description

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. Alpha-amylase is the major form of amylase found in humans and other mammals. Alpha-amylase hydrolyses alpha bonds of large, alpha-linked polysaccharides, such as starch and glycogen, yielding glucose and maltose. Amylases is widely expressed and is most prominent in pancreatic juice and saliva, each of which has its own isoform of human alpha;-amylase. They behave differently on isoelectric focusing, and can also be separated in testing by using specific monoclonal antibodies.

GENE INFORMATION

Gene Name AMY2A amylase, alpha 2A (pancreatic) [Homo sapiens]

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 glucanohydrolase; PA; AMY2; AMY2B;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;