

Native Human Amylase, Alpha 2B (pancreatic)

Cat. No. AMY2B-1858H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human AMY2B was expressed in Human Pancreas.
Species	Human
Source	Human Pancreas
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. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the pancreas.
Form	Aqueous buffer of 100 mM Tris-HCL + 150 mM NaCl.
Biological Activity	Typically > 400 Units/ml at 37 °C. One unit will catalyze the hydrolysis of one of malto pentaose, which through coupled reactions results in the formation of 5 of glucose-6-phosphate per minute at 37 °C. Measured at 340 nm as an equimolar amount of NADH produced by a coupled reaction.
Purity	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses.
Storage	Liquid is stable for 1 year at 2-4 °C. Avoid repeated freeze-thaw cycles.
Pathways	Carbohydrate digestion and absorption; Digestion of dietary carbohydrate; Metabolic pathways; Metabolism of carbohydrates; Pancreatic secretion; Starch and sucrose

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metabolism

GENE INFORMATION

Gene Name	AMY2B amylase, alpha 2B(pancreatic) [Homo sapiens]
Official Symbol	AMY2B
Synonyms	AMY2B; amylase,alpha 2B (pancreatic); AMY2; alpha-amylase 2B;glycogenase; OTTHUMP00000012696; OTTHUMP00000012697; alpha-amylase carcinoid;carcinoid alpha-amylase; 1,4-alpha-D-glucan glucohydrolase 2B; EC 3.2.1.1
Gene ID	280
mRNA Refseq	NM_020978
Protein Refseq	NP_066188
MIM	104660
UniProt ID	P19961
Chromosome Location	1
Function	alpha-amylaseactivity; hydrolase activity, acting on glycosyl bonds; metal ion binding

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