

Recombinant Human AMY1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AMY1A-2967H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AMY1A MS Standard C13 and N15-labeled recombinant protein (NP_004029) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 salivary gland. Alternative splicing results in multiple transcript variants encoding the same protein.
Molecular Mass	57.8 kDa
AA Sequence	MKLFWLLFTIGFCWAQYSSNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFGGVQ VSPPNENVAIHNPFRPWERYQPVS YKLCTRSGNEDEFNMVTRCNNVGVRIYVD AVINHMCGNAVSAGTSSTCGSYFNPGSRDFPAVPYSGWDFNDGKCKTGSGDIENY NDATQVRDCRLSGLLDLALGKD YVRSKIAEYMNHLIDIGVAGFRIDASKHMWPGDIK AILDKLHNLNSNWFPEGSKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTVI RKWNGEKMSYLKNWGEWGFMPSDRALVFVDNHDNQRGHGAGGASILTFWDAR LYKMAVGFMLAHPYGFTRVMSSYRWPRYFENGKDVNDWVGPPNDNGVTKEVTINP

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DTTCGNDWVCEHRWRQIRNMVNFNRNVVDGQPFTNWDNGSNQVAFGRGNRGFIV
FNNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGIKIYVSDDGKAHFSISNSAEDP
FIAIHAESKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AMY1A amylase alpha 1A [Homo sapiens (human)]

Official Symbol AMY1A

Synonyms AMY1A; amylase, alpha 1A (salivary); AMY1, amylase, alpha 1A; salivary; alpha-amylase 1; glycogenase; salivary alpha-amylase; salivary amylase alpha 1A; amylase, salivary, alpha-1A; 1,4-alpha-D-glucan glucanohydrolase 1; AMY1; AMY1B; AMY1C;

Gene ID 276

mRNA Refseq NM_004038

Protein Refseq NP_004029

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MIM	104700
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UniProt ID	P04745
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