

Recombinant Full Length Human AMY1A Protein, C-Flag-tagged

Cat. No. AMY1A-726HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AMY1A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	55.9 kDa
AA Sequence	MKLFWLLFTIGFCWAQYSSNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFGGVQ VSPPNENVAIHNPFPWWERYQPVSYKLCTRSGNEDEFNMVTRCANNVGVRIYVD AVINHMCGNAVSAGTSSTCGSYFNPGSRD FPAVPYSGWDFNDGKCKTGSGDIENY NDATQVRDCRLSGLLDLALGKDYVRSKIAEYMNHLIDIGVAGFR IDASKHMPGDIK AILDKLHNLNSNWFPEGSKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTV I RKWNGEKMSYLNWGEWGFMPSDRALVFVDNHDNQRGHGAGGASILTFWDAR

 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

LYKMAVGFM LAHPYGF TRVMSSYRWPRYFENGKDVNDWVGPPNDNGVTKEVTIN
 PD TTCGNDWVCEHRWRQIRNMVNFERNVVDGQP FTNWDNGSNQVAFGRGNRGF
 IVFNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGIKIYVSDDGKA
 HFSISNSAEDPFIAIHAESKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways	Metabolic pathways, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

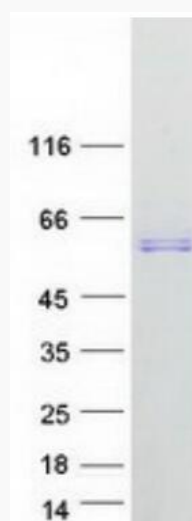
Gene Name	AMY1A amylase alpha 1A [Homo sapiens (human)]
Official Symbol	AMY1A
Synonyms	AMY1

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Gene ID	276
mRNA Refseq	NM_004038.4
Protein Refseq	NP_004029.2
MIM	104700
UniProt ID	Q6NSB3



Coomassie blue staining of purified AMY1A protein.