

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

Cat. No. AGL-2159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AGL MS Standard C13 and N15-labeled recombinant protein (NP_000019) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the glycogen debrancher enzyme which is involved in glycogen degradation. This enzyme has two independent catalytic activities which occur at different sites on the protein: a 4-alpha-glucotransferase activity and a amylo-1,6-glucosidase activity. Mutations in this gene are associated with glycogen storage disease although a wide range of enzymatic and clinical variability occurs which may be due to tissue-specific alternative splicing. Alternatively spliced transcripts encoding different isoforms have been described.
Molecular Mass	174.6 kDa
AA Sequence	MGHSKQIRILLNEMEKLEKTLFRLEQGYELQFRLGPTLQGKAVTVYTNYPFPGETF NREKFRSLDWENPTEREDDSKYCKLNLQQSGSFQYYFLQGNEKSGGGYIVVDPIL RVGADNHVLPDLCVTLQTFLAKCLGPFDEWESRLRVAKESGYNMIHFTPLQTLGLS RSCYSLANQLELNPDFSRRPNRKYTWNDVGQLVEKLLKKEWNVICITDVVYNHTAANS KWIQEHPECAYNLVNSPHLKPAWVLDRLWRFSCDVAEGKYKEKGIPALIENDHHM NSIRKIIWEDIFPKLKLWEFFQVDVNKAVEQFRRLLTQENRRVTKSDPNQHLTIIQDPE

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YRRFGCTVDMNIALTTFIPHDKGPAAIECCNWFHKRMEELNSEKHRLINYHQEQAV
 NCLLGNVFYERLAGHGPKLGPVTRKHPLVTRYFTFPFEEIDFSMEESMIHLPNKACF
 LMAHNGWVMGDDPLRNFAEPGSEVYLRRELICWGDSVKLRYGNKPEDCPYLWAH
 MKKYTEITATYFQGVRLDNCHSTPLHVAEYMLDAARNLQPNLYVVAELFTGSEDLDN
 VVFTRLGISSLIREAMSAYNSHEEGRLVYRYGGEPVGSFVQPCRPLMPAIAHALFM
 DITHDNECPIVHRSAYDALPSTTIVSMACCASGSTRGYDELVPHQISVVSEERFYTK
 WNPEALPSNTGEVNFQSGIIAARCAISKLHQELGAKGFIQVYVDQVDEDIVAVTRHSP
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 QVAVGILRNHLTQFSPHFKSGSLAVDNADPILKIPFASLASRLTLAELNQILYRCESEE
 KEDGGGCYDIPNWSALKYAGLQGLMSVLAIEIRPKNDLGHPFCNNLRSGDWMIDYVS
 NRLISRSGTIAEVGKWLQAMFFYLKQIPRYLIPCYFDAILIGAYTTLLDTAWKQMSSFV
 QNGSTFVKHLSLGSVQLCGVGKFPSPILSPALMDVPYRLNEITKEKEQCCVSLAAG
 LPHFSSGIFRCWGRDTFIALRGILLITGRYVEARNIILAFAGTLRHGLIPNLLGEGIYAR
 YNCRDAVWWWLQCIQDYCKMVPNGLDILKCPVSRMYPTDDSAPLPAGTLDQPLFE
 VIQEAMQKHMQGIQFRERNAGPQIDRNMKDEGFNITAGVDEETGFVYGGNRFNCG
 TWMDKMGESDRARNRGIPATPRDGSAVEIVGLSKSAVRWLELSKKNIFPYHEVTV
 KRHGKAIKVSYSYDEWNRKIQDNFEKLFHVSEDPSDLNEKHPNLVHKGRIYKDSYGASS
 PWCDYQLRPNFTIAMVVAPELFTTEKAWKALEIAEKKLLGPLGMKTLDPDDMVYCGI
 YDNALDNDNYNLAKGFNYHQGPWLWPIGYFLRAKLYFSRLMGPETTAKTIVLVKN
 VLSRHYVHLERSPWKGLPELTNENAQYCPFSCETQAWSIATILETLYDLTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

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.

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Concentration 50 µg/mL as determined by BCA

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

GENE INFORMATION

Gene Name AGL amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Homo sapiens (human)]

Official Symbol AGL

Synonyms AGL; amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase; amylo 1, 6 glucosidase, 4 alpha glucanotransferase; glycogen debranching enzyme; glycogen storage disease type III; glycogen debrancher; amylo-1, 6-glucosidase, 4-alpha-glucanotransferase; GDE;

Gene ID 178

mRNA Refseq NM_000028

Protein Refseq NP_000019

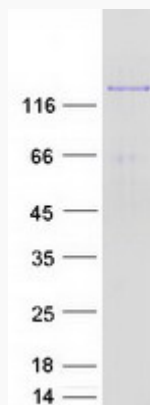
MIM 610860

UniProt ID P35573

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SDS-PAGE

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