

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

Cat. No. AGL-2755H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AGL MS Standard C13 and N15-labeled recombinant protein (NP_000633) 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 RSCYSLANQLELNPDFS RPNRKYTWNVDVGQLVEKLLKKEWNVICITDVVYNHTAANS KWIQEHPECAYNLVNSPHLKPAWVLDRLWRFSCDVAEGKYKEKGIPALIENDHHM NSIRKIIWEDIFPKLKLWEFFQVDVNKAVEQFRRLLTQENRRVTKSDPNQHLTIIQDPE

 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

YRRFGCTVDMNIALTTFIPHDKGPAAIEECCNWFHKRMEELNSEKHRLINYHQEQAV
 NCLLGNVFYERLAGHGPKLGPVTRKHPLVTRYFTFPFEEIDFSMEESMIHLPNKACF
 LMAHNGWVMGDDPLRNFAEPGSEVYLRRELICWGDSVKLRYGNKPEDCPYLWAH
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 VVFTRLGISSLIREAMSAYNSHEEGRLVYRYGGEPVGSFVQPCRPLMPAIAHALFM
 DITHDNECPIVHRSAYDALPSTTIVSMACCASGSTRGYDELVPHQISVVSEERFYTK
 WNPEALPSNTGEVNFQSGIIAARCAISKLHQELGAKGFIQVYVDQVDEDIVAVTRHSP
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 INGTPDITVEIREHIQLNESKIVKQAGVATKGPNEYIQEIEFENLSPGSVIIFRVSLDPHA
 QVAVGILRNHLTQFSPHFKSGSLAVDNADPILKIPFASLASRLTLAELNQILYRCESEE
 KEDGGGCYDIPNWSALKYAGLQGLMSVLAIEIRPKNDLGHPFCNNLRSGDWMIDYVS
 NRLISRSGTIAEVGKWLQAMFFYLKQIPRYLIPCYFDAILIGAYTTLLDTAWKQMSSFV
 QNGSTFVKHLSLGSVQLCGVGKFPSPILSPALMDVPYRLNEITKEKEQCCVSLAAG
 LPHFSSGIFRCWGRDTFIALRGILLITGRYVEARNIILAFAGTLRHGLIPNLLGEGIYAR
 YNCRDAVWWWLQCIQDYCKMVPNGLDILKCPVSRMYPTDDSAPLPAGTLDQPLFE
 VIQEAMQKHMQGIQFRERNAGPQIDRNMKDEGFNITAGVDEETGFVYGGNRFNCG
 TWMDKMGESDRARNRGIPATPRDGSAVEIVGLSKSAVRWLELSKKNIFPYHEVTV
 KRHGKAIKVSYDEWNRKIQDNFEKLFHVSEDPSDLNEKHPNLVHKGRIYKDSYGASS
 PWCDYQLRPNFTIAMVVAPELFTTEKAWKALEIAEKKLLGPLGMKTLDPDDMVYCGI
 YDNALDNDNYNLAKGFNYHQGPEWLWPIGYFLRAKLYFSRLMGPETTAKTIVLVKN
 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
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Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
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GENE INFORMATION

Gene Name	AGL amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Homo sapiens (human)]
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Official Symbol	AGL
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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;
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Gene ID	178
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mRNA Refseq	NM_000642
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Protein Refseq	NP_000633
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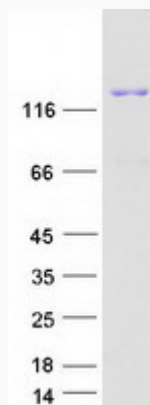
MIM	610860
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UniProt ID	P35573
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SDS-PAGE

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