

Recombinant Human AGL protein, His & T7-tagged

Cat. No. AGL-7920H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AGL aa. (Met1167~Leu1532 (Accession # P35573)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1167~Leu1532
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%

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Characteristic	The isoelectric point is 6.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

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; GDE; glycogen debranching enzyme; amylo-1, 6-glucosidase, 4-alpha-glucanotransferase; amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferaseprovided; glycogen debrancher; glycogen debranching protein

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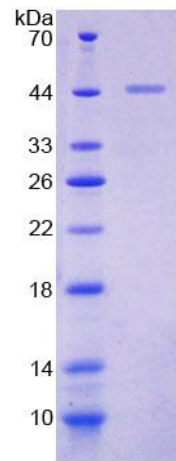
Gene ID 178

mRNA Refseq NM_000028.2

Protein Refseq NP_000019.2

UniProt ID P35573

SDS-PAGE



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