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Recombinant human Glycogenin 1 protein

Catalog Number: ATGP0349

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-333aa

UniProt No.

P46976

NCBI Accession No.

AAH00033

Alternative Names

Glycogenin, GYG1, GYG, Glycogenin1, GYG 1.

PRODUCT SPECIFICATION

Molecular Weight

41.2 kDa (365aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-T7-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Glycogenin 1 is an enzyme involved in glycogen biosynthesis. Glycogenin 1 is important for the function of self-glucosylates, via an inter-subunit mechanism, to form an oligosaccharide primer that serves as substrate for glycogen synthase. Also, it plays a role in regulating glycogen metabolism and the attainment of maximal glycogen levels in skeletal muscle. Recombinant human Glycogenin 1, fused to His-T7-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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Amino acid Sequence

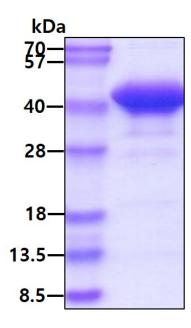
MHHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMTDQAFVT LTTNDAYAKG ALVLGSSLKQ HRTTRRLVVL ATPQVSDSMR KVLETVFDEV IMVDVLDSGD SAHLTLMKRP ELGVTLTKLH CWSLTQYSKC VFMDADTLVL ANIDDLFDRE ELSAAPDPGW PDCFNSGVFV YQPSVETYNQ LLHLASEQGS FDGGDQGILN TFFSSWATTD IRKHLPFIYN LSSISIYSYL PAFKVFGASA KVVHFLGRVK PWNYTYDPKT KSVKSEAHDP NMTHPEFLIL WWNIFTTNVL PLLQQFGLVK DTCSYVNVED VSGAISHLSL GEIPAMAQPF VSSEERKERW EQGQADYMGA DSFDNIKRKL DTYLQ

General References

Yamashita H., et al. (1999) J Biol Chem. 274(42):29897-904. Declercg JP., et al. (2001) J Mol Biol. 311(4):751-9.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

