

# Recombinant Human Glycogenin 1, His-T7-tagged

**Cat. No.** GYG1-186H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human Glycogenin 1, fused to His-T7-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 41.2 kDa (365aa).                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | 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.                                                             |
| <b>Amino Acid Sequence</b> | MHHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMTDQAFVT LTTNDAYAKG<br>ALVLGSSLKQ HRTTRRLVVL ATPQVSDSMR KVLETVFDEV IMVDVLDSGD<br>SAHLTLMKRP ELGVTCLKH CWSLTQYSKC VFMDADTLVL ANIDDLFDRE<br>ELSAAPDPGW PDCFNSGVFV YQPSVETYNQ LLHLASEQGS FDGGDQGILN<br>TFFSSWATTD IRKHLPIYN LSSISIYSYL PAFKVFGASA KVVHFLGRVK<br>PWNYTYDPKT KSVKSEAHDP NMTHPEFLIL WWNIFTTNVL PLLQQFGLVK<br>DTCSYVNVED VSGAISHLSL GEIPAMAQPF VSSEERKERW EQGQADYMGA<br>DSFDNIKRKL DTYLQ. |
| <b>Form</b>                | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                           |

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|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% by SDS – PAGE.                                                                                                                                  |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Storage</b>       | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GYG1 glycogenin 1 [ Homo sapiens ]                                                                                                                                     |
| <b>Synonyms</b>            | GYG1; glycogenin 1; GYG; EC 2.4.1.186; Glycogenin-1                                                                                                                    |
| <b>Gene ID</b>             | 2992                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_004130                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_004121                                                                                                                                                              |
| <b>MIM</b>                 | 603942                                                                                                                                                                 |
| <b>UniProt ID</b>          | P46976                                                                                                                                                                 |
| <b>Chromosome Location</b> | 3q24-q25.1                                                                                                                                                             |
| <b>Pathway</b>             | Metabolism of carbohydrates                                                                                                                                            |
| <b>Function</b>            | glucose binding; glycogenin glucosyltransferase activity; glycogenin glucosyltransferase activity; protein binding; transferase activity, transferring glycosyl groups |

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