

Recombinant Human Glycogenin 1, His-T7-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	<i>E.coli</i>
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.
Amino Acid Sequence	MHHHHHHMAS MTGGQQMGRD LYDDDDDKDRW GSMTDQAFVT LTTNDAYAKG ALVLGSSLKQ HRTTRRLVVL ATPQVSDSMR KVLETVFDEV IMVDVLDSDG SAHLTLMKRP ELGVTLTKLH CWSLTQYSKC VFMDADTLVL ANIDDLFDRE ELSAAPDPGW PDCFNSGVFV YQPSVETYNQ LLHLASEQGS FDGGDQGILN TFSSWATTD IRKHLPIFYN LSSISIYSYL PAFKVFGASA KVVHFLGRVK PWNYTYDPKT KSVKSEAHDP NMTHPEFLIL WWNIFTTNVL PLLQQFGLVK DTCSYVNVED VSGAISHLSL GEIPAMAQPF VSSEERKERW EQGQADYMGA DSFDNIKRKL DTYLQ.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.

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Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	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

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