

Recombinant Human GFPT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GFPT1-2453H Lot. No. (See product label)

SPECIFICATION

Product Overview

GFPT1 MS Standard C13 and N15-labeled recombinant protein (NP_002047) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes the first and rate-limiting enzyme of the hexosamine pathway and controls the flux of glucose into the hexosamine pathway. The product of this gene catalyzes the formation of glucosamine 6-phosphate.

Molecular Mass

76.6 kDa

AA Sequence

MCGIFAYLNYHVPRTTRREILETLIKGLQRLEYRGYDSAGVGFDDGGNDKDWEANACKI
 QLIKKGKVKALDEEVHKQQDMDLDIEFDVHLGIAHTRWATHGEPSPVNSHPQRS
 KNEFIVIHNGIITNYKDLKKFLESKGYDFESETDTETIAKLVKMYDNRESQDTSFTT
 LVERVIQQLEGAFALVFKSVHFPQAVGTRRGSPLLIGVRSEHKLSTDHIPILYRTGK
 DKKGSCNLSRVDSTTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDDDVAAVVDG
 RLSIHRIKRTAGDHPGRAVQTLQMEQQIMKGNFSSFMQKEIFEQPEVNTMRGR
 VNFDDYTVNLGGLKDHKEIQRCRRLIACGTSYHAGVATRQVLEELTELPVMVELA
 SDFLDRNTPVFRDDVCFFLSQSGETADTLMLGRYCKERGALTVGITNTVGSSISRET
 DCGVHINAGPEIGVASTKAYTSQFVSLVMFALMMCDRISMQERRKEIMLGLKRLPD
 LIKEVLSMDDEIQKLATELYHQKSVLIMGRGYHYATCLEGALKIKEITYMHSEGILAGE

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LKHGPLALVDKLMPPVIMIIMRDHTYAKCQNALQQVVARQGRPVICDKEDTETIKNTK
 RTIKVPHSVDCLQGILSVIPLQLLAFHLAVLRGYDVFPRNLAKSVTVETRTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

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.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GFPT1 glutamine--fructose-6-phosphate transaminase 1 [Homo sapiens (human)]

Official Symbol GFPT1

Synonyms GFPT1; glutamine--fructose-6-phosphate transaminase 1; GFPT, glutamine fructose 6 phosphate transaminase 1; glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1; GFA; GFAT; GFAT1; hexosephosphate aminotransferase 1; D-fructose-6-phosphate amidotransferase 1; glutamine:fructose 6 phosphate amidotransferase 1; GFPT; GFAT 1; GFAT1m;

Gene ID 2673

mRNA Refseq NM_002056

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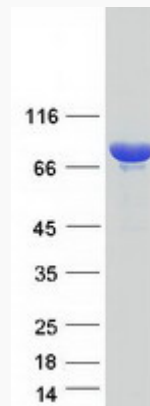
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Protein Refseq NP_002047

MIM 138292

UniProt ID Q06210

SDS-PAGE



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