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Recombinant human GFPT1 protein

Catalog Number: ATGP2777

PRODUCT INFORMATION

Expression system
E.coli

Domain
332-699aa

UniProt No.
Q06210

NCBI Accession No.
NP_001231639

Alternative Names
Glutamine--fructose-6-phosphate transaminase 1, CMSTA1, GFA,GFAT, GFAT 1, GFAT1, GFAT1m, GFPT, GFPT1L, MSLG

PRODUCT SPECIFICATION

Molecular Weight
43.7 kDa (391aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by BRADFORD assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 2mM DTT, 2mM EDTA

Purity
> 95% by SDS-PAGE

Tag
His-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
GFPT1 is 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. Recombinant human GFPT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

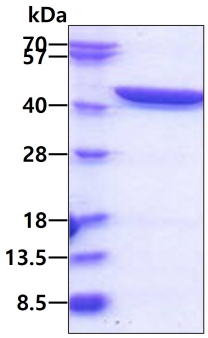
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General References

Selcen,D., et al. (2013) Neurology 81 (4), 370-378
Huh,S.Y., et al. (2012) Muscle Nerve 46 (4), 600-604

DATA

SDS-PAGE



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