
Product Data Sheet

Product Name: GFPT1 Human
 Cat. No.: GP21672
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1; D-fructose-6-phosphate amidotransferase 1; Glutamine:fructose-6-phosphate amidotransferase 1; GFAT 1; GFAT1; Hexosephosphate aminotransferase 1; GFPT1; GFAT; GFPT; CMSTA1; GFA; GFAT1m; GFPT1L; MSLG; Glutamine--Fructose-6-Phosphate Transaminase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQQIMKGN FSSFMQKEIF EQPESVVNTM RGRVNFDDYT VNLGGLKDHI KEIQRCRRLI LIACGTSYHA GVATRQVLEE LTELPMVEL ASDFLDRNTP VFRDDVCFLL SQSGETADTL MGLRYCKERG ALTVGITNTV GSSISRETDC GVHINAGPEI GVASTKAYTS QFVSLVMFAL MMCDDRISMQ ERRKEIMLGL KRLPDLIKEV LSMDDIQLK ATELYHQKSV LIMGRGYHYA TCLEGALKIK EITYMHSEGI LAGELKHGPL ALVDKLMPLV MIIMRDHTYA KCQNALQQVV ARQGRPVIC DKEDTETIKN TKRTIKVPHS VDCLQGILSV IPLQLLAFHL AVLRGYDVDF PRNLAKSVTV E.		
Formulation	GFPT1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 50% glycerol, 2mM DTT and 2mM EDTA.		

Introduction

Glutamine--Fructose-6-Phosphate Transaminase 1 (GFPT1) participates in the hexosamine pathway and controls the glucose fluidity into the hexosamine pathway. GFPT1 regulates the availability of precursors for N- and O-linked glycosylation of proteins. GFPT1 controls the circadian expression of clock genes ARNTL/BMAL1 and CRY1.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GFPT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 391 amino acids (332-669 a.a) and having a molecular mass of 43.7kDa. GFPT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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