

Recombinant Human GPAM, GST-tagged

Cat. No. GPAM-137H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPAM(1 a.a. - 828 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a mitochondrial enzyme which prefers saturated fatty acids as its substrate for the synthesis of glycerolipids. This metabolic pathway's first step is catalyzed by the encoded enzyme. Two forms for this enzyme exist, one in the mitochondria and one in the endoplasmic reticulum. Two alternatively spliced transcript variants have been described for this gene.
Molecular Mass	120.3 kDa
AA Sequence	MDEYALTLGTIDVSYLPHSSEYSVGRCKHTSEEWGECGFRPTIFRSATLKWKESLM SRKRPFVGRCCYSCTPQSW DKFFNTSIPSLGLRNVIYINETHTRHRGWLARRLSYV LFIQERDVHKGMFATNVTENVLNSSRVQEIAIEVAAEL NPDGSAQQQSKAVNKVKK KAKRILQEMVATVSPAMIRLTGWVLLKLFNSFFWNIQIHKGQLEMVKAATETNLPLL F LPVHRSHIDYLLLTFILFCHNIKAPYIASGNNLNIPIFSTLIHKLGGFFIRRLDETPDGR KDVLYRALLHGH VELLRQQQFLEIFLEGTRSRSGKTSCARAGLLSVVVDLSTNVIP DILIIPVGISYDRIIEGHYNGEQLGKPKKN ESLWSVARGVIRMLRKNYGCVRVDFAP FSLKEYLESQSQKPVSAALLSLEQALLPAILPSRPSDAADEGRDTSIN ESRNATDESLR RRLIANLAEHILFTASKSCAIMSTHIVACLLLYRHRQGIDLSTLVEDFFVMKEEVLARDF

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DLGF SGNSEDVVMHAIQLLGNCVTITHTSRNDEFFITPSTTVPSVFELNFYSNGVLH
VFIMEAIIACSLYAVLNKRGLG GPTSTPPNLISQEQLVRKAASLCYLLSNEGTLSPCQ
TFYQVCHETVGKFIQYGILTVAEHDDQEDISPSLAEQQ WDKKLPEPLSWRSDEEDE
DSDFGEEQRDCYLKVSQSKEHQQFITFLQRLLGPLLEAYSSAAIFVHNFSGPVPPEPE
YLQKLHKYLITRTERNVAVYAESATYCLVKNVAVKMFKDIGVFKETKQKRVSVLELSST
FLPQCNRQKLLEYILSF VVL

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name GPAM glycerol-3-phosphate acyltransferase, mitochondrial [Homo sapiens (human)]

Official Symbol GPAM

Synonyms GPAM; glycerol-3-phosphate acyltransferase, mitochondrial; glycerol-3-phosphate acyltransferase 1, mitochondrial; glycerol 3 phosphate acyltransferase 1; mitochondrial; GPAT1; KIAA1560; MGC26846; GPAT-1; glycerol 3-phosphate acyltransferase, mitochondrial; GPAT; RP11-426E5.2

Gene ID 57678

mRNA Refseq NM_001244949

Protein Refseq NP_001231878

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MIM	602395
UniProt ID	Q9HCL2
Chromosome Location	10q25.2
Pathway	Activation of gene expression by SREBF (SREBP); CDP-diacylglycerol biosynthesis; Glycerolipid metabolism
Function	glycerol-3-phosphate O-acyltransferase activity

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