

Recombinant Human PISD protein, GST-tagged

Cat. No. PISD-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PISD(1 a.a. - 409 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-409 a.a.
Description	Phosphatidylserine decarboxylases (PSDs; EC 4.1.1.65) catalyze the formation of phosphatidylethanolamine (PE) by decarboxylation of phosphatidylserine (PS). Type I PSDs, such as PISD, are targeted to the inner mitochondrial membrane by an N-terminal targeting sequence. PISD also contains a conserved LGST motif that functions as an autocatalytic cleavage site where the proenzyme is split into mature alpha and beta subunits (Schuiki and Daum, 2009 [PubMed 19165886]).
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	71.39 kDa
AA Sequence	MATSVGHRCLGLLHGVAPWRSSLHPCEITALSQSLQPLRKLPFRAFRTDARKIHTAP ARTMFLLRPLPILLVTGG GYAGYRQYKEYRERELEKLGLEIPPKLAGHWEVALYKSV PTRLLSRAWGRLNQVELPHWLRRPVYSLYIWTFGVN MKEAAVEDLHHYRNLSSEFF RRKLKPQARPVCGLHVSIPSDGRILNFGQVKNCVEQVKGVTYSLESFLGPRMCT EDLPFPPAASCD S FKNQLVTREGNELYHCVIYLAPGDYHCFHSPTDWTVSHRRHFP

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GSLMSVNPGMARWIKELFC HNERVVLTDGDKHGGFFSLTAVGATNVGSIRIYFDRDL
HTNSPRHSGSYNDFSFTHTNREGVPMRKGEHLGEFN LGSTIVLIFEAPKDFNFQ
LKTGQKIRFGEALGSL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

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

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

PISD phosphatidylserine decarboxylase [Homo sapiens]

Official Symbol

PISD

Synonyms

PISD; phosphatidylserine decarboxylase; phosphatidylserine decarboxylase
proenzyme; dJ858B16.2; PSDC; PSD; PSSC; DJ858B16; DKFZp566G2246;

Gene ID

23761

mRNA Refseq

NM_014338

Protein Refseq

NP_055153

MIM

612770

UniProt ID

Q9UG56

**Chromosome
Location**

22q12.2

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Pathway	FOXA1 transcription factor network, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	lyase activity; phosphatidylserine decarboxylase activity;

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