

# Recombinant Human PISD protein, GST-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PISD(1 a.a. - 409 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-409 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | 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]). |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 71.39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MATSVGHRCLGLLHGVAPWRSSLHPCEITALSQSLQPLRKLPFRAFRTDARKIHTAP<br>ARTMFLLRPLPILLVTGG GYAGYRQYEKYRERERELEKLGLEIPPKLAGHWEVALYKSV<br>PTRLLSRAWGRLNQVELPHWLRRPVYSLYIWTFGVN MKEAAVEDLHHYRNLSSEFF<br>RRKLKPQARPVCGLHVSIPSDGRILNFGQVKNCVEQVKGVTYSLESFLGPRMCT<br>EDLPFPPAASCDSEFKNQLVTREGNELYHCVIYLAPGDYHCFHSPTDWTVSHRRHFP                                                                                                                                                                         |

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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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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | FOXA1 transcription factor network, organism-specific biosystem;<br>Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; |
| <b>Function</b> | lyase activity; phosphatidylserine decarboxylase activity;                                                                                                                                                                             |

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