

Recombinant Human PISD protein, His-tagged

Cat. No. PISD-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PISD(1-375 aa) fused with His tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-375 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	Tris-based buffer, 50% glycerol
AA Sequence	MMCQSEARQGPELRAAKWLHFPQLALRRRLGQLSCMSRPALKLRSWPLTVLYYLL PFGAL RPLSRVGWRPVSRVALYKSVPTRLLSRAWGRLNQVELPHWLRRPVYSLYI WTFGVNMKEA AVEDLHHYRNLSEFFRRKLKPQARPVCGLHSVISPSDGRILNFGQV KNCEVEQVKGVYTYS LESFLGPRMCTEDLPFPPAASCDSFKNQLVTREGNELYHCVI YLAPGDYHCFHSPTDWTV SHRRHFPGSLMSVNPGMARWIKELFCHNERVVLTGD WKHGFFSLTAVGATNVGSIRIYFD RDLHTNSPRHSGSYNDFSFTHTNREGVPMR KGEHLGEFNLGSTIVLIFEAPKDFNFQL KTGQKIRFGEALGSL

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Purity	>90% (SDS-PAGE)
Storage	Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade. Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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
Pathway	FOXA1 transcription factor network, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

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Function

lyase activity; phosphatidylserine decarboxylase activity;

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