

Recombinant Human Phosphoserine Aminotransferase 1, His-tagged

Cat. No. PSAT1-1328H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-370 a.a.
Description	PSAT1, also known as phosphoserine aminotransferase, catalyses the conversion of 3-phosphohydroxypyruvate into 3-phosphoserine which is dephosphorylated subsequently by phosphoserine phosphatase to form L-serine.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol.
Molecular Weight	42.9 kDa (394 aa), confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMDAPRQ VVNFPGPAK LPHSVLLEIQ KELLDYKGVG ISVLEMSHRS SDFAKIINNT ENLVRELLAV PDNYKVIFLQ GGGCGQFSAV PLNLIGLKAG RCADYVVTGA WSAKAAEEAK KFGTINIVHP

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KLGSYTKIPD PSTWNLNPDA SYVYYCANET VHGVFDFIP DVKGAVLVCD
 MSSNFLSKPV DVSKFGVIFA GAQKNVGSAG VTVVIVRDDL LGFALRECPS
 VLEYKVQAGN SSLYNTPPCF SIYVMGLVLE WIKNNGGAAA MEKLSSIKSQ
 TIYEIIDNSQ GFYVCPVEPQ NRSKMNIPFR IGNAKGDDAL EKRFLDKALE
 LNMLSLKGHR SVGGIRASLY NAVTIEDVQK LAAFMMKKFLE MHQL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Glycine, serine and threonine metabolism; Metabolic pathways; Vitamin B6 metabolism; Serine biosynthesis

GENE INFORMATION

Gene Name

PSAT1 phosphoserine aminotransferase 1 [Homo sapiens]

Official Symbol

PSAT1

Synonyms

PSAT1; phosphoserine aminotransferase 1; PSA; EPIP; PSAT; MGC1460; endometrial progesterone-induced protein; EC 2.6.1.52

Gene ID

29968

mRNA Refseq

NM_021154

Protein Refseq

NP_066977

MIM

610936

UniProt ID

Q9Y617

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Chromosome Location	9q21.2
Function	O-phospho-L-serine:2-oxoglutarate minotransferase activity; pyridoxal phosphate binding; transferase activity