

Phosphoserine Aminotransferase 1 Recombinant Protein | PSAT1 recombinant protein

Recombinant Human Phosphoserine Aminotransferase 1

CATALOG # AAA38898	HOST E Coli
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PRODUCT SYNONYMS

Phosphoserine Aminotransferase 1; Recombinant Human Phosphoserine Aminotransferase 1; PSAT1 Human; Phosphoserine Aminotransferase 1 Human Recombinant; Phosphoserine aminotransferase; Phosphohydroxythreonine aminotransferase; PSAT; PSAT1; PSA; EPIP; PSAT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The PSAT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGSHMDAPRQVVN FGPGPAKLPH SVLLEIQKEL LDYKGVGISV LEMSHRSSDF AKIINNTENL VRELLAVPDN YKVIFLQGGG CGQFSAPVLN LIGLKAGRCA DYVVTGAWSA KAAEEAKKFG TINIVHPKLG SYTKIPDPST WNLNPDASYV YYCANETVHG VEFDFIPDVK GAVLVCDMSS NFLSKPVDVS KFGVIFAGAQ KNVGSAGVTV VIVRDDLLGF ALRECPSVLE YKVQAGNSSL YNTPPCFSIY VMGLVLEWIK NNGGAAAMEK LSSIKSQTIY EIIDNSQGFY VCPVEPQNRS KMNIPFRIGN AKGDDALEKR FLDKALELNM LSLKGHRSVG GIRASLYNAV TIEDVQKLAA FMKKFLEMHQ L.
Sequence Length	324
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PSAT1 recombinant protein	Description: PSAT1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 394 amino acids (1-370) and having a molecular mass of 42.9kDa. PSAT1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Phosphoserine aminotransferase (PSAT1) catalyzes the conversion of 3-phosphohydroxypyruvate into 3-phosphoserine which is dephosphorylated consequently by phosphoserine phosphatase to form L-serine. PSAT1 is probably a phosphoserine aminotransferase, based on similarity to proteins in mouse, rabbit, and Drosophila. PSAT1 is expressed at high levels in the brain, liver, kidney and pancreas, and very weakly expressed in the thymus, prostate, testis and colon. Defects in the PSAT1 gene are the cause of phosphoserine aminotransferase deficiency (PSATD). PSATD is distinguished biochemically by low plasma and cerebrospinal fluid concentrations of serine and glycine and clinically by intractable seizures, acquired microcephaly, hypertonia, and psychomotor retardation.
Product Categories/Family for PSAT1 recombinant protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	10863955
NCBI GeneID	29968
NCBI Accession #	NP_066977.1

NCBI GenBank Nucleotide #	NM_021154.4
UniProt Accession #	Q9Y617 ; Q5T7G5 ; Q5T7G6 ; Q96AW2 ; Q9BQ12
NCBI Official Full Name	phosphoserine aminotransferase isoform 2
NCBI Official Synonym Full Names	phosphoserine aminotransferase 1
NCBI Official Symbol	PSAT1
NCBI Official Synonym Symbols	PSA; EPIP; NLS2; PSAT; PSATD
NCBI Protein Information	phosphoserine aminotransferase; endometrial progesterone-induced protein; phosphohydroxythreonine aminotransferase
UniProt Protein Name	Phosphoserine aminotransferase
UniProt Gene Name	PSAT1
UniProt Synonym Gene Names	PSA; PSAT
UniProt Entry Name	SERC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/psat1-recombinant-protein-e-coli/38898>