

Recombinant human PSAT1 protein

Catalog Number: ATGP1328

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-370aa

UniProt No.

Q9Y617

NCBI Accession No.

NP_478059

Alternative Names

Phosphoserine aminotransferase, EPIP, PSA, PSAT

PRODUCT SPECIFICATION

Molecular Weight

42.9 kDa (394aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human PSAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSMDAPRQ VVNFPGPAK LPHSVLLEIQ KELLDYKGVG ISVLEMSHRS SDFAKIINNT

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ENLVRELLAV PDNYKVIPLQ GGGCGQFSAV PLNLIGLKAG RCADYVVTGA WSAKAAEEAK KFGTINIVHP KLGSYTKIPD
PSTWNLNPPA SYVYYCANET VHGVEFDIP DVKGAVLVCD MSSNFLSKPV DVSKFGVIFA GAQKNVGSAG VTVVIVRDDL
LGFALRECPS VLEYKVQAGN SSLYNTPPCF SIYVMGLVLE WIKNNGGAAA MEKLSSIKSQ TIYEIIDNSQ GFYVCPVEPQ
NRSKMNIPIFR IGNAKGDDAL EKRFLDKALE LNMLSLKGHR SVGGIRASLY NAVTIEDVQK LAAFMKKFLE MHQL

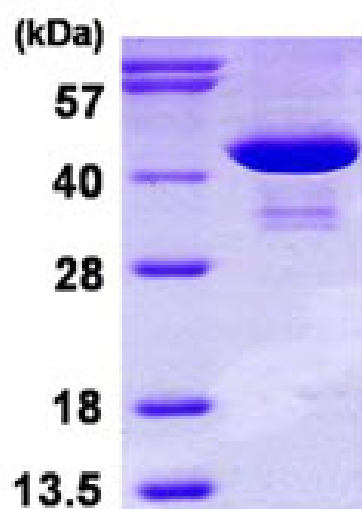
General References

Choudhary C., et al. (2009) Science. 325:834-840

Hart C.E., et al. (2007) Am. J. Hum. Genet. 80:931-937

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)