

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

<MGSSHHHHHH SGLVPRGSH MGS>MDAPRQ VVNFPGPAK LPHSVLLEIQ KELLDYKGVG ISVLEMSHRS

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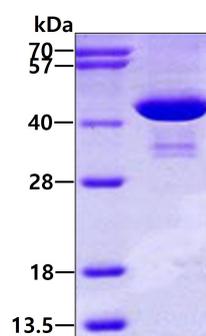
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VTVVIVRDDL LGFALRECPS VLEYKVQAGN SSLYNTPPCF SIYVMGLVLE WIKNNGGAAA MEKLSSIKSQ TIYEIDNSQ
GFYVCPVEPQ NRSKMNIPFR IGNAKGDDAL EKRFLDKALE LNMLSLKGHR SVGGIRASLY NAVTIEDVQK LAAFMKKFLE
MHQL

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.