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 SSGLVPRGSH MGSH>MDAPRQ VVNFGPGPAK LPHSVLLEIQ KELLDYKGVG ISVLEMSHRS

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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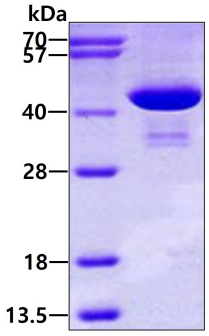
SDFAKIINNT ENLVRELLAV PDNYKVIFLQ GGGCGQFSAV PLNLIGLKAG RCADYVVTGA WSAKAAEEAK KFGTINIVHP KLGSYTKIPD PSTWNLNPDA SYVYYCANET VHGVEFDFIP DVKGAVLVCD MSSNFLSKPV DVSKFGVIFA GAQKNVGSAG VTVVIVRDDL LGFALRECPS VLEYKVQAGN SSLYNTPPCF SIYVMGLVLE WIKNNGGAAA MEKLSSIKSQ TIYEIIDNSQ GFYVCPVEPQ NRSKMNIPFR IGNAKGDDAL EKRFLDKALE 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.