

**PSAT1, 1-370aa, Human, His tag, E.coli**

**Cat.NO.: TP03555**

3th Edition

**Synonyms:** Phosphoserine aminotransferase, EPIP, PSA, PSAT.

**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.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT

**Molecular Weight:** 42.9 kDa (394aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSSHRSSDFA  
KIINNTENLVRELLAVPDNYKVIFLQGGGCGQFSVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKL  
GSYTKIPDPSTWNLNPDASYVYYCANETVHGVEFDIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQNKVG  
AGVTVVIVRDDLLGFALRECPSVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIID  
NSQGFYVCPVEPQNRSKMNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAV TIEDVQKLA AF  
MKKFLEMHQL

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.