

Datasheet for ABIN7545972

PSAT1 Protein (AA 1-370) (His tag)



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Overview

Quantity:	1 mg
Target:	PSAT1
Protein Characteristics:	AA 1-370
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSAT1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PSAT1 Protein expressed in mammalian cells.
Sequence:	<p>MDAPRQVVNF GPGPAKLPHS VLLEIQKELL DYKGVGISVL EMSHRSSDFA KIINNTENLV RELLAVPDNY KVIFLQGGGC GQFSAVPLNL IGLKAGRCAD YVVTGAWSAK AAEEAKKFGT INIVHPKLGS YTKIPDPSTW NLNPDASYVY YCANETVHGV EFDVIPDVKG AVLVCDMSSN FLSKPVDVSK FGVIFAGAQQ NVGSAGVTVV IVRDDLLGFA LRECPSVLEY KVQAGNSSLY NTPPCFSIYV MGLVLEWIKN NGGAAAMEKL SSIKSQTIYE IIDNSQGFYV CPVEPQNRSK MNIPFRIGNA KGDDALEKRF LDKALELNML SLKGHRVGG IRASLYNAV TIEDVQKLA AF MKKFLEMHQL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PSAT1
Alternative Name:	PSAT1 (PSAT1 Products)
Background:	<p>Phosphoserine aminotransferase (EC 2.6.1.52) (Phosphohydroxythreonine aminotransferase) (PSAT),FUNCTION: Involved in L-serine biosynthesis via the phosphorylated pathway, a three-step pathway converting the glycolytic intermediate 3-phospho-D-glycerate into L-serine. Catalyzes the second step, that is the pyridoxal 5'-phosphate-dependent transamination of 3-phosphohydroxypyruvate and L-glutamate to O-phosphoserine (OPS) and alpha-ketoglutarate. {ECO:0000269 PubMed:36851825, ECO:0000269 PubMed:37627284}.</p>
Molecular Weight:	40.4 kDa
UniProt:	Q9Y617
Pathways:	Warburg Effect

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months