

Recombinant Human VARS protein, His & T7-tagged

Cat. No. VARS-8221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VARS aa. (Ser2~Gln219 (Accession # P26640)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser2~Gln219
Description	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. The protein encoded by this gene belongs to class-I aminoacyl-tRNA synthetase family and is located in the class III region of the major histocompatibility complex.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.9kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 8.6.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	VARs valyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	VARs
Synonyms	VARs; valyl-tRNA synthetase; G7A; VARs1; VARs2; valine--tRNA ligase; protein G7a; valRS; valine tRNA ligase 1, cytoplasmic; valyl-tRNA synthetase 2
Gene ID	7407
mRNA Refseq	NM_006295.2
Protein Refseq	NP_006286.1

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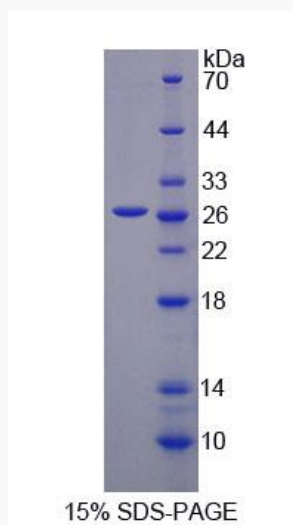
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UniProt ID

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SDS-PAGE

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