

# Recombinant human AA protein

Catalog Number: ATGP0740

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

14-309aa

### UniProt No.

Q9NRN7

### NCBI Accession No.

NP\_056238

### Alternative Names

L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase, AASD-PPT, CGI-80, LYS2, LYS5, L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase

## PRODUCT SPECIFICATION

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### Molecular Weight

36.4 kDa (316aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### Purity

> 95% 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

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### Description

AASDHPPT belongs to the P-Pant transferase superfamily. This protein catalyzes the post-translational modification of target proteins by phosphopantetheine and can transfer the 4-phosphopantetheine moiety from coenzyme A to a serine residue of a broad range of acceptors, such as the acyl carrier domain of FASN (in vitro). It is detected in heart, skeletal muscle, placenta, testis, brain, pancreas, liver and kidney. Recombinant human AASDHPPT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MEGVRWAFSC GTWLPSRAEW LLAVRSIQPE EKERIGQFVF ARDAKAAMAG RLMIRKLVAE  
KLNIPWNHIR LQRTAKGKPV LAKDSSNPYP NFNFNISHQG DYAVLAAEPE LQVGIDIMKT SFPGRGSIPE FFHIMKRKFT  
NKEWETIRSF KDEWTQLDMF YRNWALKESF IKAIGVGLGF ELQRLEFDLS PLNLDIGQVY KETRLFLDGE EEKEWAFEES  
KIDEHHFVAV ALRKPdGSRH QDVPSQDDSK PTQRQFTILN FNDLMSSAVP MTPEDPSFWD CFCFTEEIPI RNGTKS

## General References

Krupenko SA., et al. (2010) J Biol Chem. 285(3):1627-33.  
Geraghty MT., et al. (2001) Mol Genet Metab. 72(4):336-42.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

