

AARS Human

Alanyl-tRNA Synthetase Human Recombinant
ENZ0004

Product Overview

Name AARS Human

Description

Alanyl-tRNA Synthetase Human Recombinant

Accession (Primary) [P49588](#)

Synonyms

L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase, 4'-phosphopantetheinyl transferase, Alpha-aminoadipic semialdehyde dehydrogenase-phosphopantetheinyl transferase, AASD-PPT, LYS5 ortholog, AASDHPPT, LYS2, LYS5, CGI-80, DKFZp566E2346.

Introduction

AASDHPPT is a member of the P-Pant transferase superfamily. AASDHPPT 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). AASDHPPT is similar to *Saccharomyces cerevisiae* LYS5, which is required for the activation of the alpha-aminoadipate dehydrogenase in the biosynthetic pathway of lysine. AASDHPPT is found in the heart, skeletal muscle, placenta, testis, brain, pancreas, liver and kidney. It's been suggested that defects in the human AASDHPPT gene result in pipecolic acidemia.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The AASDHPPT solution (1mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0), 1mM DTT and 10% Glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M EGVRWAFSC GTWLPSRAEW LLAVRSIQPE EKERIGQFVF ARDAKAAMAG
RLMIRKLVAE KLNIPWNHIR LQRTAKGKPV LAKDSSNPYP NFNFNISHQG DYAVLAAEPE LQVGIDIMKT
SFPGRGSIPE FFHIMKRKFT NKEWETIRSF KDEWTQLDMF YRNWALKESF IKAIGVGLGF ELQRLEFDLS
PLNLDIGQVY KETRLFLDGE EEKEWAFEEES KIDEHHFVAV ALRKPDGSRH QDVPSQDDSK PTQRQFTILN
FNDLMSSAVP MTPEDPSFWD CFCFTEEIPI RNGTKS.

Precautions

AARS Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P49588](#))