

Human AARSD1 Protein (His Tag)

Catalog Number: 14280-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AARSD1; 1110069E20Rik; 2310044P18Rik; AA589600; AlaX; AlaXp-II

Protein Construction:

A DNA sequence encoding the human AARSD1 (Q9BTE6-2) (Thr176-Glu525) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human AARSD1 comprises 365 amino acids and has a predicted molecular mass of 40.5 kDa. The apparent molecular mass of the protein is approximately 40 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

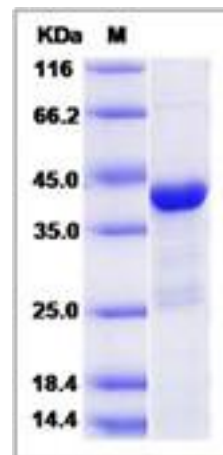
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

AARSD1 belongs to the class-II aminoacyl-tRNA synthetase family, Alax-L subfamily. AARSD1 binds 1 zinc ion per subunit functions in trans to edit the amino acid moiety from incorrectly charged tRNA(Ala). Four transcript variants have been described for AARSD1: NM_025267.3, NM_001136042.2, NM_001142653.1 and NM_001142654.1. It has been determined that the latter two variants represent a distinct upstream locus, which is now represented by GeneID:100885848 (PTGES3L), while the former two variants represent readthrough transcripts between PTGES3L and this locus (AARSD1). The readthrough locus (PTGES3L-AARSD1) is now represented by GeneID:100885850.

References

1. Tatham MH, *et al.* (2011) Comparative proteomic analysis identifies a role for SUMO in protein quality control. *Oncogene*. 19(17):2120-8.
2. Kim W, *et al.* (2011) Systematic and quantitative assessment of the ubiquitin-modified proteome. *Mol Cell*. 44(2):325-40.
3. Udeshi ND, *et al.* (2012) Methods for quantification of in vivo changes in protein ubiquitination following proteasome and deubiquitinase inhibition. *Mol Cell Proteomics*. 11(5):148-59.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>