

# Mouse AARS1 Protein

Cat. No. AAR-MB1S1

## Description

<b>Source</b>	Recombinant Mouse AARS1 Protein is expressed from Baculovirus-Insect Cells with His tag at the C-terminal. It contains Met1-Asn968.
<b>Accession</b>	Q8BGQ7
<b>Molecular Weight</b>	The protein has a predicted MW of 108.43 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Alanyl-tRNA synthetase 1 (AARS1) gene encodes a ubiquitously expressed class II enzyme that catalyzes the attachment of alanine to the cognate tRNA. AARS1 mutations are frequently responsible for autosomal dominant Charcot-Marie-Tooth disease type 2N (CMT2N).

## Assay Data

### Tris-Bis PAGE



Mouse AARS1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.