

# Mouse PADI4 Protein

Cat. No. PAD-ME104

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Mouse PADI4 Protein is expressed from E.coli with His tag at the N-Terminus.<br>It contains Met1-Pro666. |
| <b>Accession</b>        | Q9Z183   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 76.9 kDa same as Bis-Tris PAGE result.   |
| <b>Endotoxin</b>        | Less than 1 EU per µg by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 90% as determined by HPLC  |

## Formulation and Storage

|                    |  |
|--------------------|--|
| <b>Formulation</b> | Supplied as 0.22 µm filtered solution in 20mM Tris, 500mM NaCl, 10% Glycerol, 0.5mM TCEP, 1mM EDTA (pH 8.0).   |
| <b>Storage</b>     | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Peptidylarginine deiminase type4 (PADI4) was firstly identified as a non-MHC RA genetic risk factor. Furthermore, PADI4 risk allele possessed the association with bone damage regardless of anti citrullinated peptide antibody (ACPA) positivity in Asian RA patients. PADI4 gene codes PAD4 protein which has post-translational modification activity (citrullination). Padi4 is mainly expressed in myeloid cells and granulocytes.

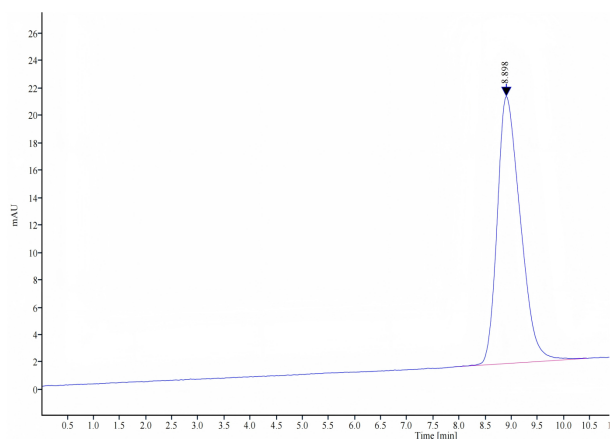
## Assay Data

### Bis-Tris PAGE



Mouse PADI4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Mouse PADI4 is greater than 90% as determined by SEC-HPLC.