

# Human PADI4 Protein

Cat. No. PAD-HE104

## Description

<b>Source</b>	Recombinant Human PADI4 Protein is expressed from E.coli with His tag at the N-Terminus. It contains Met1-Pro663.
<b>Accession</b>	Q9UM07
<b>Molecular Weight</b>	The protein has a predicted MW of 76.6 kDa same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

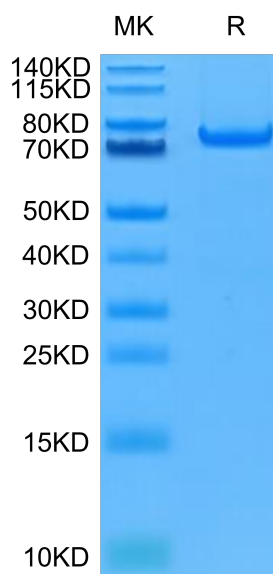
<b>Formulation</b>	Supplied as 0.22µm filtered solution in LTSB.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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



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