

## Recombinant Human PADI4 Protein (His Tag)

Catalog No. PKSH032973

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

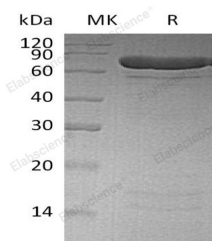
### Description

<b>Synonyms</b>	Protein-Arginine Deiminase Type-4;HL-60 PAD;Peptidylarginine Deiminase IV;Protein-arginine Deiminase type IV;PADI4;PADI5;PDI5
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Pro663
<b>Accession</b>	AAH25718.1
<b>Calculated Molecular Weight</b>	76.2 kDa
<b>Observed molecular weight</b>	78 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 50mM Tris-HCl, 500mM NaCl, pH 7.5.
<b>Reconstitution</b>	Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Protein-Arginine Deiminase Type-4 (PADI4) belongs to the Protein Arginine Deiminase family. PADI4 is expressed in eosinophils and neutrophils, but it is not expressed in peripheral monocytes or lymphocytes. PADI4 catalyzes the citrullination/deimination of arginine residues of proteins. In addition, PADI4 may play an important role in tumorigenesis. Genetic variations in PADI4 are a cause of susceptibility to rheumatoid arthritis (RA), which is a systemic inflammatory disease with autoimmune features and a complex genetic component.

### For Research Use Only