

PADI4 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	PDI5;PADI4;Protein-arginine Deiminase type IV;HL-60 PAD;PADI5;Protein-Arginine Deiminase Type-4;Peptidylarginine Deiminase IV
Protein Construction:	Met1-Pro663
Species:	Human
Expression Host:	E. coli
Accession:	AAH25718.1
Molecular Weight:	78 KDa (reducing condition)
AA Sequence:	Met1-Pro663

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCL, 500 mM NaCl, pH 7.5.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

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