



Recombinant Protein Technical Manual

Recombinant Human PADI4 Protein (His Tag)

RPES3365

Product Data:

Product SKU: RPES3365

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9UM07

Protein Information:

Molecular Mass: 76.2 kDa

AP Molecular Mass: 78 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 50mM Tris, 500mM NaCl, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Protein-Arginine Deiminase Type-4; HL-60 PAD; Peptidylarginine Deiminase IV; Protein-arginine Deiminase type IV; PADI4; PADI5; PDI5

Immunogen Information:

Sequence: Met 1-Pro663

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 tumourigenesis. 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.