

Recombinant Human PADI4 Protein, His/GST-tagged

Cat. No. PADI4-037H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal His/GST-tagged full length human PAD4 protein (2-663) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-663
Description	This gene is a member of a gene family which encodes enzymes responsible for the conversion of arginine residues to citrulline residues. This gene may play a role in granulocyte and macrophage development leading to inflammation and immune response.
Molecular Mass	103.2 kDa
Purity	≥85% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of NH ₄ ⁺ per minute at 37 centigrade in 50 mM HEPES, pH 8.0, containing 10 mM calcium chloride, 5 mM DTT, and 2mM N-α-Benzoyl-L-Arginine Ethyl Ester (BAEE).
Stability	≥ 6 months
Storage	At -80 centigrade.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer 50 mM HEPES, pH 8.0, 300 mM sodium chloride, 1mM DTT, and 10% glycerol

GENE INFORMATION

Gene Name PADI4 peptidyl arginine deiminase 4 [Homo sapiens (human)]

Official Symbol PADI4

Synonyms

PADI4; peptidyl arginine deiminase 4; PAD; PAD4; PDI4; PDI5; PADI5; protein-arginine deiminase type-4; HL-60 PAD; PADI-H protein; peptidyl arginine deiminase, type IV; peptidyl arginine deiminase, type V; protein-arginine deiminase type IV; EC 3.5.3.15

Gene ID 23569

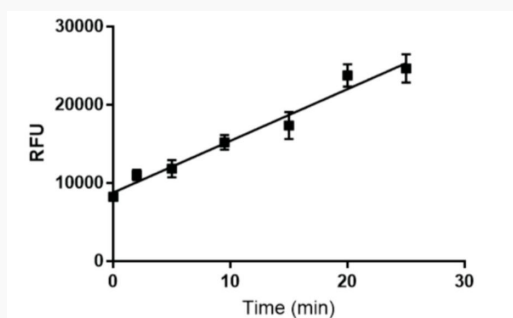
mRNA Refseq NM_012387

Protein Refseq NP_036519

MIM 605347

UniProt ID Q9UM07

Activity of PAD4



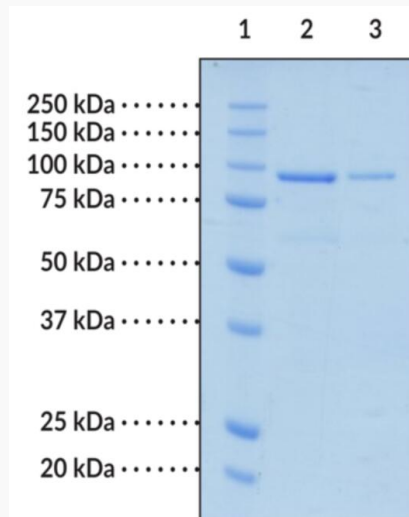
Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

PAD4 Activity was determined using PAD4 inhibitor screening assay kit with 0.25 μ g PAD4 ANF 2 mM BAEE substrate.

SDS-PAGE analysis of PADI4



Lane 1: MW Markers

Lane 2: Metalloendopeptidase OMA1 (4 μ g)

Lane 3: Metalloendopeptidase OMA1 (2 μ g)

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA