

# Cynomolgus PADI4 Protein, His Tag (active enzyme)

Catalog # PA4-C5143



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

Protein-arginine deiminase type-4,HL-60 PAD,Peptidylarginine deiminase IV,Protein-arginine deiminase type IV,PADI4,EC:3.5.3.15

## Source

Cynomolgus PADI4 Protein, His Tag(PA4-C5143) is expressed from E. coli cells. It contains AA Met 1 - Pro 663 (Accession # [A0A2K5USI5-1](#)).

## Molecular Characterization

Poly-his PADI4(Met 1 - Pro 663)  
A0A2K5USI5-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 76.1 kDa. The protein migrates as 70-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2 µm filtered solution in 500 mM NaCl, pH8.0 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

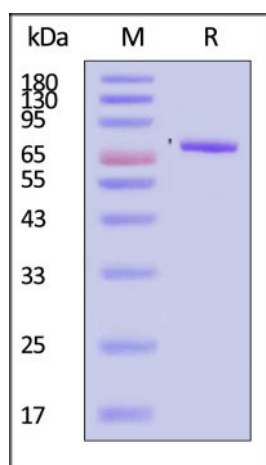
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## SDS-PAGE



Cynomolgus PADI4 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity

Measured by its ability to catalyze the deimination of benzoyl--arginine ethyl ester. The specific activity is >1000 pmol/min/µg (QC tested).

## Background

Protein arginine deiminase, type 4 (PADI4) is a calcium dependent enzyme Catalyzes the citrullination/deimination of arginine residues of proteins such as histones, thereby playing a key role in histone code and regulation of stem cell maintenance. PADI4 can interact with tumor suppressor p53 and regulate the transcriptional activity of p53. Dysregulation of PADI4 is implicated in a variety of diseases, including rheumatoid arthritis, tumor development, and multiple sclerosis.

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