

## Recombinant Human PADI1, His-tagged

Cat. No. PADI1-85H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PADI1, fused with His-tagged at N-terminal, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The family members have distinct substrate specificities and tissue-specific expression patterns. The type I enzyme is involved in the late stages of epidermal differentiation, where it deiminates filaggrin and keratin K1, which maintains hydration of the stratum corneum, and hence the cutaneous barrier function. This enzyme may also play a role in hair follicle formation. This gene exists in a cluster with four other paralogous genes.</p>
<b>Form</b>	A solution in 50 mM Tris-HCl, pH 8.0, containing 150 mM sodium chloride and 20% glycerol.
<b>Molecular Mass</b>	76.4 kDa
<b>Purity</b>	≥95%
<b>Storage</b>	-80°C

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## GENE INFORMATION

<b>Gene Name</b>	PADI1 peptidyl arginine deiminase, type I [ Homo sapiens (human) ]
<b>Official Symbol</b>	PADI1
<b>Synonyms</b>	PADI1; PDI; PAD1; PDI1; HPAD10; peptidyl arginine deiminase, type I; protein-arginine deiminase type-1; hPAD-colony 10; peptidylarginine deiminase I; protein-arginine deiminase type I; NP_037490.2; EC 3.5.3.15
<b>Gene ID</b>	29943
<b>mRNA Refseq</b>	NM_013358
<b>Protein Refseq</b>	NP_037490
<b>MIM</b>	607934
<b>UniProt ID</b>	Q9ULC6
<b>Chromosome Location</b>	1p36.13
<b>Pathway</b>	protein citrullination
<b>Function</b>	calcium ion binding; protein-arginine deiminase activity

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