

## Recombinant Human PADI1, GST-tagged

Cat. No. PADI1-1605H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PAD1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full Length
<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>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~95 kDa
<b>Purity</b>	>95%

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<b>Applications</b>	Western Blot
<b>Stability</b>	1 yr at -70oC from date of shipment.
<b>Storage</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 ug/ul

## 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>	<a href="#">29943</a>
<b>mRNA Refseq</b>	<a href="#">NM_013358</a>
<b>Protein Refseq</b>	<a href="#">NP_037490</a>
<b>MIM</b>	<a href="#">607934</a>
<b>UniProt ID</b>	<a href="#">Q9ULC6</a>
<b>Chromosome Location</b>	1p36.13

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**Pathway**

protein citrullination

**Function**

calcium ion binding; protein-arginine deiminase activity

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