

## Recombinant Human PADI3, GST-tagged

**Cat. No.** PADI3-1607H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PAD3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	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 III enzyme modulates hair structural proteins, such as filaggrin in the hair follicle and trichohyalin in the inner root sheath, during hair follicle formation. Together with the type I enzyme, this enzyme may also play a role in terminal differentiation of the epidermis. This gene exists in a cluster with four other paralogous genes.
<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>	~97 kDa
<b>Purity</b>	>95%
<b>Applications</b>	Western Blot

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<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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PADI3 peptidyl arginine deiminase, type III [ Homo sapiens (human) ]
<b>Official Symbol</b>	PADI3
<b>Synonyms</b>	PADI3; PAD3; PDI3; peptidyl arginine deiminase, type III; protein-arginine deiminase type-3; peptidylarginine deiminase III; protein-arginine deiminase type III; NP_057317.2; EC 3.5.3.15
<b>Gene ID</b>	<a href="#">51702</a>
<b>mRNA Refseq</b>	<a href="#">NM_016233</a>
<b>Protein Refseq</b>	<a href="#">NP_057317</a>
<b>MIM</b>	<a href="#">606755</a>
<b>UniProt ID</b>	Q9ULW8
<b>Chromosome Location</b>	1p36.13
<b>Pathway</b>	protein citrullination

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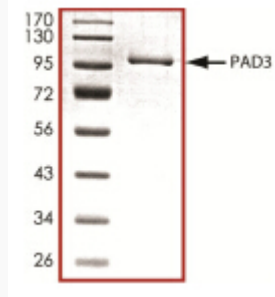
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**Function**

calcium ion binding; protein-arginine deiminase activity

The purity was determined to be >95% by densitometry.  
Approx. MW 97 kDa.



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