

Recombinant Human PADI3, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human PAD3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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.
Form	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.
Molecular Mass	~97 kDa
Purity	>95%
Applications	Western Blot

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Stability	1 yr at -70oC from date of shipment.
Storage	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.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	PADI3 peptidyl arginine deiminase, type III [Homo sapiens (human)]
Official Symbol	PADI3
Synonyms	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
Gene ID	51702
mRNA Refseq	NM_016233
Protein Refseq	NP_057317
MIM	606755
UniProt ID	Q9ULW8
Chromosome Location	1p36.13
Pathway	protein citrullination

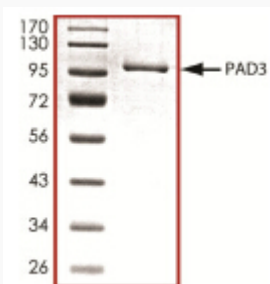
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Function calcium ion binding; protein-arginine deiminase activity

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



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