

Recombinant Full Length Human PADI1 Protein, His-tagged

Cat. No. PADI1-11135H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PADI1 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Pro 663 (Accession # Q9ULC6). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met
Species	Human
Source	InsectCells
ProteinLength	1-663 aa
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 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. [provided by RefSeq, Jul 2008]
Form	Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.
Molecular Mass	The protein has a calculated MW of 76.7 kDa. The protein migrates as 47 kDa and 65-70 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under

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	reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	PADI1 peptidyl arginine deiminase, type I [Homo sapiens (human)]
Official Symbol	PADI1
Synonyms	PADI1; peptidyl arginine deiminase, type I; protein-arginine deiminase type-1; hPAD colony 10; HPAD10; PAD1; PDI; PDI1; peptidylarginine deiminase type I; protein arginine deiminase type 1; hPAD-colony 10; peptidylarginine deiminase I; protein-arginine deiminase type I;
Gene ID	29943
mRNA Refseq	NM_013358
Protein Refseq	NP_037490

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MIM	607934
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UniProt ID	Q9ULC6
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