

Recombinant Human PADI1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human PAD1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
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.?
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	~95 kDa
Purity	>95%

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Applications	Western Blot
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	PADI1?peptidyl arginine deiminase, type I [?Homo sapiens?(human)]
Official Symbol	PADI1
Synonyms	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
Gene ID	29943
mRNA Refseq	NM_013358
Protein Refseq	NP_037490
MIM	607934
UniProt ID	Q9ULC6
Chromosome Location	1p36.13

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Pathway	protein citrullination
Function	calcium ion binding; protein-arginine deiminase activity