

Recombinant Human PADI1, His-tagged

Cat. No. PADI1-85H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PADI1, fused with His-tagged at N-terminal, was expressed in E. coli.
Species	Human
Source	E.coli
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	A solution in 50 mM Tris-HCl, pH 8.0, containing 150 mM sodium chloride and 20% glycerol.
Molecular Mass	76.4 kDa
Purity	≥95%
Storage	-80°C

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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