

Recombinant Full Length Human PADI1 Protein, C-Flag-tagged

Cat. No. PADI1-1850HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PADI1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian 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 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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	74.5 kDa
AA Sequence	MAPKRVVQLSLKMPHVAVCVVGVEAHVDIHS DVPKGANSFRVSGSSGVEVFMVYN RTRVKEPIGKARWPL DTDADMVSVGTASKELKDFKVRVSYFGEQEDQALGRSVL YLTGVDISLEVD TGRTGKVKRSQGD KKTWR WGPEGYGAILLVNCDRDNHRS AEPD LTHSWLMSLADLQDMSPMLLSCNGPDKLFD SHKLVLNVPFSDSKR VRVFCARGGN SLSDYKQVLGPQCLSYEVERQPGEQEIKFYVEGLTFPDADFLGLVSLSVSLVDPGTL

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PEV TLFTDTVGFRMAPWIMTPNTQPPEELYVCRVMDTHGSNEKFLEDMSYLT LKAN
 CKLTICPQVENRNRDWI QDEMEFGYIEAPHKSPVVFDS PRNRGLKDFPYKRILGPD
 FGYVTREIPLPGPSSLD SFGNLDVSPPVTV GGTEYPLGRILIGSSFPKSGGRQMARA
 VRNFLKAQQVQAPVELYSDWLSVGHVDEFLT FVPTSDQKGFRL LLASPSACLKLFQ
 EKKEEGYGEEAAQFDGLKHQAKRSINEM LADRHLQRDNLHAQKCIDWNRNV LKREL
 GL AESDIVDIPQLFFLKNFYAEAFFPDMVMNMVVLGKYL GIPKPYGPIINGRCCLEEKV
 QSLLEPLGLHCIFI DDYLSYHELQGEIHC GTNVRRKPFPPFKWWNMVP TRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

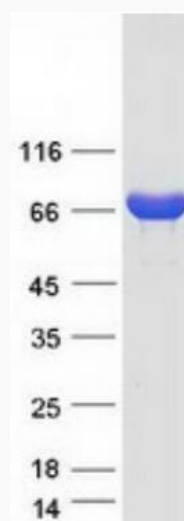
Gene Name	PADI1 peptidyl arginine deiminase 1 [Homo sapiens (human)]
Official Symbol	PADI1
Synonyms	PDI; PAD1; PDI1; HPAD10

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Gene ID	29943
mRNA Refseq	NM_013358.3
Protein Refseq	NP_037490.2
MIM	607934
UniProt ID	Q9ULC6



Coomassie blue staining of purified PADI1 protein.