

Active Recombinant Human PADI3, Flag-tagged

Cat. No. PADI3-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PADI-3, also known as Peptidyl arginine deiminase, type III, 1-664(end), with C-terminal FLAG-tag, MW= 75 kDa, expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
ProteinLength	1-664 a.a.
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	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 20% glycerol, and 80 µg/ml FLAG peptide
Bio-activity	≥22 pmole/min/µg
Molecular Mass	75 kDa

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Purity	≥53%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	>6 months at –80°C.
Warning	Avoid freeze/thaw cycles.

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

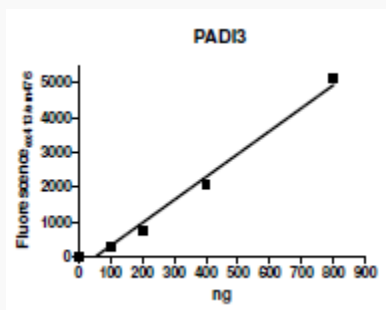
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Function

calcium ion binding; protein-arginine deiminase activity



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