



# Recombinant Human Protein-arginine deiminase type-3 (PADI3)

<b>Product Code</b>	CSB-EP891552HU-B
<b>Abbreviation</b>	PADI3
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9ULW8
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MSLQRIVRVS LEHPTSAVCV AGVETLVDIY GSVPEGTEMF EVYGTGPGVDI YISPNERMERGR ERADTRRWF DATLEIIVVM NSPSNDLNDS HVQISYHSSH EPLPLAYAVL YLTCVDISLD CDLNCEGRQD RNFVDKRQWV WGPSGYGGIL LVNCDRDDPS CDVQDNCDQH VHCLQDLEDM SVMVLRTQGP AALFDDHKLK LHTSSYDAKR AQVFHICGPE DVCEAYRHVL GQDKVSYEVP RLHGDEERFF VEGLSFPDAG FTGLISFHVT LLDDSNEDFS SPIFTDTVV FRVAPWIMTP STLPPELVYV CRVRNNTCFV DAVAEALARKA GCKLTICPQA ENRNRWIQD EMELGYVQAP HKTLPVVFDS PRNGELQDFP YKRILGPDFG YVTREPRDRS VSGLDSFGNL EVSPPVANG KEYPLGRILI GGNLPGSSGR RVTQVVRDFL HAQKVQPPVE LFVDWLAVGH VDEFSLFVPA PDGKGFRLML ASPGACFKLF QEKQKCGHGR ALLFQGVVDD EQVKTISINQ VLSNKDLINY NKFVQSCIDW NREVLKRELG LAECDIIDIP QLFKTERKKA TAFFPDLVNM LVLGKHLGIP KPFPGPIINGC CCLEEKVRSR LEPLGLHCTF IDDFTPYHML HGEVHC GTNV CRKPFSFKWW NMVP
<b>Source</b>	E.coli
<b>Target Names</b>	PADI3
<b>Protein Names</b>	Recommended name: Protein-arginine deiminase type-3 EC= 3.5.3.15 Alternative name(s): Peptidylarginine deiminase III Protein-arginine deiminase type III
<b>Expression Region</b>	1-664
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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