



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

Product Code	CSB-EP891552HU-B
Abbreviation	PADI3
Storage	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.
Uniprot No.	Q9ULW8
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MSLQRIVRVS LEHPTSAVCV AGVETLVDIY GSVPEGTEMF EVYGTGPGVDI YISPNERMERGR ERADTRRWRF DATLEIIVVM NSPNDLNDS 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 ENRNRWIIQD EMELGYVQAP HKTLPPVVFDS PRNGELQDFP YKRILGPDFG YVTREPRDRS VSGLDSFGNL EVSPPVWANG KEYPLGRILI GGNLPGSSGR RVTQVVRDFL HAQKVQPPVE LFVDWLAVGH VDEFLSFVPA PDGKGFMRLL ASPGACFKLF QEKQKCGHGR ALLFQGVVDD EQVKTISINQ VLSNKDLINY NKFVQSCIDW NREVLKRELG LAECDIIDIP QLFKTERKKA TAFFPDLVNM LVLGKHLGIP KPFPGPIINGC CCLEEKVRSR LEPLGLHCTF IDDFTPYHML HGEVHCSTNV CRKPFSFKWW NMVP
Source	E.coli
Target Names	PADI3
Protein Names	Recommended name: Protein-arginine deiminase type-3 EC= 3.5.3.15 Alternative name(s): Peptidylarginine deiminase III Protein-arginine deiminase type III
Expression Region	1-664
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

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.

Shelf Life

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.