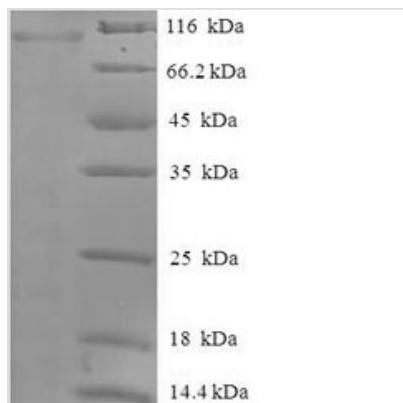




# Recombinant Human Protein-arginine deiminase type-2 (PADI2)

<b>Product Code</b>	CSB-EP896493HU
<b>Relevance</b>	Catalyzes the deimination of arginine residues of proteins.
<b>Abbreviation</b>	Recombinant Human PADI2 protein
<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>	Q9Y2J8
<b>Alias</b>	PAD-H19Peptidylarginine deiminase IIProtein-arginine deiminase type II
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MLRERTVRLQYGSRVEAVYVLGTYLWTDVYSAAPAGAQTFSCLKHSEHVVVEV VRDGEAEEVATNGKQRWLLSPSTTLRVTMSQASTEASSDKVTVNYYDEEGSI PIDQAGLFLTAIEISLDVDADRDGVVEKNNPKKASWTWGPEGQGAILLVNCDR ETPWLPKEDCRDEKVYSKEDLKMSQMILRTKGPDRLPAGYEIVLYISMSDSD KVGVFYVENPFFGQRYIHILGRRKLYHVVKYTGGSAELLFFVEGLCFPDEGFS GLVSIHVSLLLEYMAQDIPLTPIFTDTVIFRIAPWIMTPNILPPVSFVCCMKDNYL FLKEVKNLVEKTNCELKVCFYLNRGDRWIQDEIEFGYIEAPHKGFPVVLDSR DGNLKDFPVKELLGPDFGYVTREPLFESVTSLSFGNLEVSPPVTVNGKTYPL GRILIGSSFPLSGGRRMTKVVRDFLKAQQVQAPVELYSDWLTGVHGVDEFMSF VPIPGTKKFLLLMASTSACYKLFREKQKDGHGGEAIMFKGLGGMSSKRITINKILS NESLVQENLYFQRCLDWNRDILKKELGLTEQDIIDLPAFKMDEDHRRARAFFPN MVNMIVLDKDLGIPKPFQVEEECCLEMHVRGLLEPLGLECTFIDDISAYHKF LGEVHCGTNNRRKPFTFKWWHMVP
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Target Names</b>	PADI2
<b>Expression Region</b>	1-665aa
<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>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	91.6kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

Expressing the recombinant Human PADI2 protein in e.coli cells involves inserting a DNA fragment encoding the Human PADI2 protein (1-665aa) into a plasmid vector and transferring it to the e.coli cells. Positive cells are screened, cultured, and induced to express the PADI2 protein. The protein carries a N-terminal 6xHis-SUMO tag. The cells are lysed to collect the recombinant Human PADI2 protein, which is purified through affinity purification and then identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the resulting recombinant Human PADI2 protein exceeds 90%.

## 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.