

## Product datasheet for **TP313501M**

### **PADI1 (NM\_013358) Human Recombinant Protein**

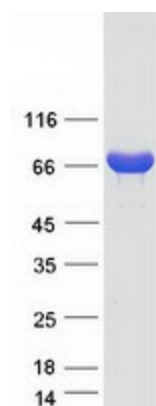
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peptidyl arginine deiminase, type I (PADI1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213501 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MAPKRVVQLSLKMPHVAVCVGVGEAHVDIHSDVPKGANSFRVSGSSGVEVFMVYNRTRVKEPIGKARWPL DTDADMVSVGTASKELKDFKVRVSYPGEQEDQALGRSVLYLTGVDISLEVDTGRTGKVKRSQGDKKTWR WGPEGYGAILLVNCDRDNHRSAEPDLTHSWLMSLADLQDMSPMLLSCNGPDKLFDSHKLVNVPFSDSKR VRVFCARGGNSLSYKQVLGPQCLSYEVERQPGEQEIKFYVEGLTFPDADFLGLVSLSVSLVDPGTLPEV TLFTDTVGFRMAPWIMTPNTQPPEELYVCRVMDTHGSNEKFLEDMSYLTKANCKLTICPQVENRNDRW I QDEMEFGYIEAPHSFPVVFDSPRNRGLKDFPYKRILGPDFGYVTREIPLPGPSSLDSFGNLDVSPPVTV GGTEYPLGRILIGSSFPKSGGRQMARAVRNFLKAQQVQAPVELYSDWLSVGHVDEFLTFTVPTSDQKGFRL LLASPSACKLKFQEKKEEGYGAAQFDGLKHQAKRSINEMLADRHLQRDNLHAQKCIDWNRNVLKRELGL L AESDIVDIPQLFFLKNFYAEAFFPDMVNMVVLGKYLGIKPYGPIINGRCCLEEKVQSLLLEPLGLHCIFI DDYLSYHELQGEIHC GTNVRKPFKWWNMVP  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	74.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.


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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_037490</a>
<b>Locus ID:</b>	29943
<b>UniProt ID:</b>	<a href="#">Q9ULC6</a>
<b>RefSeq Size:</b>	3847
<b>Cytogenetics:</b>	1p36.13
<b>RefSeq ORF:</b>	1989
<b>Synonyms:</b>	HPAD10; PAD1; PDI; PDI1
<b>Summary:</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 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. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified PADI1 protein (Cat# [TP313501]). The protein was produced from HEK293T cells transfected with PADI1 cDNA clone (Cat# [RC213501]) using MegaTran 2.0 (Cat# [TT210002]).