

Product datasheet for **TP323889M**

PADI2 (NM_007365) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peptidyl arginine deiminase, type II (PADI2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223889 representing NM_007365 Red =Cloning site Green =Tags(s)

MLRERTVRLQYGSRVEAVVVLGTYLWTDVYSAAPAGAQTFLKHSEHVWVEVVRDGEAEEVATNGKQRWL
LSPSTTLRVTMSQASTEASSDKVTVNYDEEGSIPIDQAGLFLTAIEISLDVDADRDGWVEKNNPKKASW
TWGPEGQGAILLVNCDRETPWLPKEDCRDEKVYSKEDLKDMSQMILRTKGPDRLPAGYEIVLYISMSDSD
KVGVFYVENPFFGQRYIHILGRRKLYHVVKYTGGSSELLFFVEGLCFPDEGFSGLVSIHVSLLLEYMAQDI
PLTPIFTDTVIFRIAPWIMTPNILPPVSVFVCCMKDNYLFLKEVKNLVEKTNCELKVCQYLNRGDRWIQ
DEIEFGYIEAPHKGFVVLDSRDNLKDVPVKELLPDFGYVTREPLFESVTSLSDFGNLEVSPVTVN
GKTYPLGRILIGSSFPLSGGRRMTKVVRDFLKAQQVQAPVELYSDWLTVGHVDEFMSFVPIPGTKKFLLL
MASTSACYKLFREKQKDGHGAEIMFKGLGGMSSKRITINKILSNESLVQENLYFQRCLDWNRDILKKELG
LTEQDIIDLPAFLKMDDEHRARAFFPNMVMNIVLKDGLGIPKPFQVVEECCLEMHVGRGLLEPLGLECT
FIDDISAYHKFLGEVHCGTNRKPKPFTFKWWHMVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	75.4 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.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_031391](#)

Locus ID: 11240

UniProt ID: [Q9Y2J8](#)

RefSeq Size: 2348

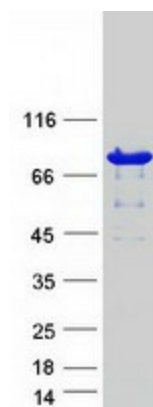
Cytogenetics: 1p36.13

RefSeq ORF: 1995

Synonyms: PAD-H19; PAD2; PDI2

Summary: 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 II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages. This enzyme is thought to play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified PAD12 protein (Cat# [TP323889]). The protein was produced from HEK293T cells transfected with PAD12 cDNA clone (Cat# [RC223889]) using MegaTran 2.0 (Cat# [TT210002]).