

Product datasheet for PH313501

PADI1 (NM_013358) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PADI1 MS Standard C13 and N15-labeled recombinant protein (NP_037490)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213501
Predicted MW:	74.7 kDa
Protein Sequence:	>RC213501 protein sequence Red=Cloning site Green=Tags(s)

MAPKRVVQLSLKMPHVAVCVVGVEAHVDIHSDVPGKANSFRVSGSSGVEVFMVYNRTRVKEPIGKARWPL
DTDADMVVSVGTASKELKDFKVRVSYFGEQEDQALGRSVLYLTGVDISLEVDTGRTGKVKRSQGDKKTWR
WGPEGYGAILLVNCDRDNHRSAEPDLTHSWLSLADLQDMSPMLLSCNGPKLFDHKLVLNVVPSDSKR
VRVFCARGGNSLSDYKQVLGPQCLSYEVERQPGEQEIKFYVEGLTFPDADFLGLVSLVSLVDPGTLPEV
TLFTDVTGFRMAPWIMTNPNTQPPEELYVCRVMDTHGSNEKFLFEDMSYLTKANCKLTICPQVENRNRWI
QDEMEFGYIEAPHKSFVVFDSPRNRGLKDFPYKRILGPDFGYVTREIPLPGPSSLDSFGNLDVSPVTV
GGTEYPLGRILIGSSFPKSGGRQMARAVRNFLKAQQVQAPVELYSDWLSVGHVDEFLLTFVPTSDQKGFRL
LLASPSACLKLFQEKKEEGYGEAAQFDGLKHQAKRSINEMLADRHLQRDNLHAQKCIDWNRNVLKRELGL
AESDIVDIPQLFFLNKYAEAFFPDMVMVMVLGKYLGIKPYGPIINGRCCLEEKVQSLLEPLGLHCIFI
DDYLSYHELQGEIHCCTNRRKPFPFKWWNMVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_037490
RefSeq Size:	3847

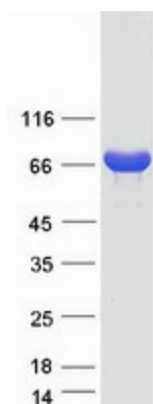


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RefSeq ORF:	1989
Synonyms:	HPAD10; PAD1; PDI; PDI1
Locus ID:	29943
UniProt ID:	Q9ULC6
Cytogenetics:	1p36.13

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 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]).