

## Recombinant Rat PADI4 Protein, His-tagged

**Cat. No.** PADI4-86R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat PADI4 Protein, fused to His-tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Enables protein-arginine deiminase activity. Involved in protein citrullination. Predicted to be part of protein-containing complex. Predicted to be active in cytoplasm and nucleus. Orthologous to human PADI4 (peptidyl arginine deiminase 4).                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | 50mM Tris-HCl, 300mM NaCl, pH 9.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 76.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | <p>MGSSHHHHHHSSGLVPRGSHMAQGAVIHVAPEEPTHAVCVVGTATPLDIRGSAPR<br/> GSTSFSITASPEVVVDVIHGPPSKKSTTGASKWPLDPKLEVTLQMKAASSRIDDQKV<br/> RISYYGPKTSSTQALLYLTGVLSLADVTRTGKAKPAPAGKDQSTWTWGPDPGHGA<br/> ILLVNCDEKDPKSSGMDFEDDKVLDNKLQDMSPMTLSTKTPKDDFDKYQLVLQVP<br/> KAKMNKVRVFRATRGLPSRYKVVLGPQQFSHRLELLGGQHSTDFYVEGLAFPDAD<br/> FKGLIPLTISLLDKSNPELPEALVFQDTVMFRVAPWIMTPNTQPPQEVYVCRFSDNED<br/> FLKSLATFTKKAKCKLTVCPPEENQDDQWMQDEMEIGYIQAPHKTLPVVFDSPRDR<br/> GLKDFPVKRVMGPNFGYVTRGLYRAEVTGLDAFGNLEVSPPVTVRGKEYPLGRILIG<br/> SSGYSSSES RDMHQILQDFLGAQQVQAPVRLFSDWLFVGHVDEFLSFVPARGKQG<br/> FRLLLSSPRACYQMFQELQTEGHGEASLFEGLKRKRQTISDILSSQKL RDQNAYVES<br/> CIDWNREVLKRELGLTEGDIIDIPQLFRIVGNSRGNPKAEAFFPNMVNMLVLGKHLGI</p> |

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|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | PKPFGPIINGRCCLEEKVCSLLEPLGLHCTFINDFYSHMYHGEVHCGTNVRRKPFA<br>FKWWHMVP                                                                                                |
| <b>Purity</b>        | >90%                                                                                                                                                                |
| <b>Storage</b>       | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Concentration</b> | 0.33 mg/ml                                                                                                                                                          |

## GENE INFORMATION

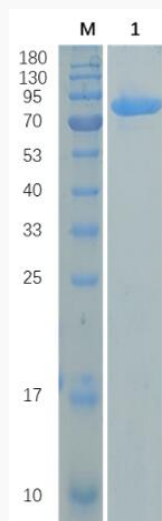
|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| <b>Gene Name</b>       | Padi4 peptidyl arginine deiminase 4 [ Rattus norvegicus (Norway rat) ] |
| <b>Official Symbol</b> | PADI4                                                                  |
| <b>Synonyms</b>        | Pdi4                                                                   |
| <b>Gene ID</b>         | 29512                                                                  |
| <b>mRNA Refseq</b>     | NM_017227                                                              |
| <b>Protein Refseq</b>  | NP_058923                                                              |
| <b>UniProt ID</b>      | O88807                                                                 |

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# SDS-PAGE



Reducing 12% SDS-PAGE analysis profile of purified PADI4 (CBB stained).

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