# Recombinant Human DUSP1 Protein, His-tagged

**Cat. No.** DUSP1-1392H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human DUSP1 Protein (Val175-Cys367) with N-His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Val175-Cys367 |
| **Description** | The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 21 kDa<br>Accurate Molecular Mass: 51 kDa |
| **Purity** | > 97% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

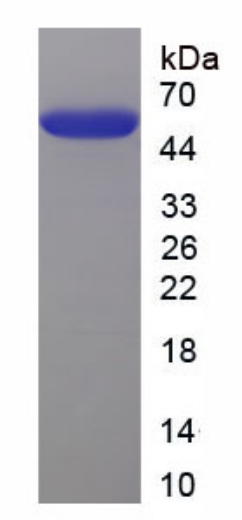
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| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | DUSP1 dual specificity phosphatase 1 [ Homo sapiens (human) ] |
| **Official Symbol** | DUSP1 |
| **Synonyms** | DUSP1; dual specificity phosphatase 1; PTPN10; dual specificity protein phosphatase 1; CL100; HVH1; MKP 1; MAP kinase phosphatase 1; protein-tyrosine phosphatase CL100; dual specificity protein phosphatase hVH1; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 1; MKP1; MKP-1; |
| **Gene ID** | 1843 |
| **mRNA Refseq** | NM_004417 |
| **Protein Refseq** | NP_004408 |
| **MIM** | 600714 |

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| **UniProt ID** | P28562 |




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