

Recombinant Human DUSP1, His-tagged

Cat. No. DUSP1-852H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DUSP1 (1-340 aa) is expressed in E.Coli with a His tag at N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-340 a.a.
Description	The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of Xenopus oocytes. Thus, DUSP1 may play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation.
MW	37687 Da.
Purity	95%.

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Formulation	10 mM Tris. pH 8.0. 0.002% NaN ₃ . 3mM NaCl. 2.5mM Imidazole.
Application	MS. SDS.
GENE INFORMATION	
Gene Name	DUSP1 dual specificity phosphatase 1 [Homo sapiens]
Synonyms	DUSP1; dual specificity phosphatase 1; CL100, HVH1, MKP-1, MKP1, PTPN10; MAP kinase phosphatase 1; dual specificity protein phosphatase 1; dual specificity protein phosphatase hVH1; mitogen-activated protein kinase phosphatase 1; protein-tyrosine phosphatase CL100; serine/threonine specific protein phosphatase; EC 3.1.3.48; EC 3.1.3.16
Gene ID	1843
mRNA Refseq	NM_004417
Protein Refseq	NP_004408
MIM	600714
UniProt ID	P28562
Chromosome Location	5q34
Pathway	MAPK signaling pathway
Function	MAP kinase tyrosine/serine/threonine phosphatase activity; non-membrane spanning protein tyrosine phosphatase activity; protein tyrosine/threonine phosphatase activity;

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protein binding

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