

Recombinant Full Length Human DUSP1 Protein

Cat. No. DUSP1-130HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DUSP1 protein with an N terminal proprietary tag; predicted Mwt: 66.44 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	367 amino acids
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.
Form	Liquid
Molecular Mass	66.440kDa inclusive of tags

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AA Sequence

MVMEVGTLD A GGLRALLGER AAQCLLLDCR SFFAFNAGHI AGSVNVRFST
 IVRRRAKGAM GLEHIVPNAE LRGRLLAGAY HAVVLLDERS AALDGAKRDG
 TLALAAGALC REARAAQVFF LKGGYEAFSA SCPELCSKQS TPMGLSLPLS
 TSVPDSAESG CSSCSTPLYD QGGPVEILPF LYLGSAYHAS RKMMLDALGI
 TALINVSANC PNHFEGHYQY KSIPVEDNHK ADISSWFNEA IDFIDSIKNA
 GGRVVFVHCQA GISRSATICL AYLMRTNRVK LDEAFEFVKQ RRSIISP NFS
 FMGQLLQFES QVLAPHCSAE AGSPAMAVLD RGTSTTTVFN FVSIPIVHST
 NSALSYLQSP ITTSPSC

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name DUSP1 dual specificity phosphatase 1 [Homo sapiens]

Official Symbol DUSP1

Synonyms DUSP1; dual specificity phosphatase 1; PTPN10; dual specificity protein phosphatase 1; CL100; HVH1; MKP1

Gene ID 1843

mRNA Refseq NM_004417

Protein Refseq NP_004408

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MIM	600714
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UniProt ID	P28562
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