

Active Recombinant Human DUSP4 Protein, His-tagged

Cat. No. DUSP4-106H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MKP-2 fused at the N-terminus to a His-tag was produced in Sf9 insect cells.
Species	Human
Source	Insect Cells
Description	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported.
Form	Liquid
Bio-activity	≥60 U/mg assayed by 3-O-methyl fluorescein phosphate (OMFP) hydrolysis at pH 8.2, 30 centigrade. One unit is equal to 1 nmole phosphate hydrolyzed from OMFP per minute.

 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

Molecular Mass	43 kDa
Storage	Store at -80 centigrade.
Storage Buffer	In 20mM TRIS/HCl, pH 8.0, 200mM NaCl, 5mM DTT, 0.1 % Tween-20, 10% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	DUSP4 dual specificity phosphatase 4 [Homo sapiens (human)]
Official Symbol	DUSP4
Synonyms	DUSP4; dual specificity phosphatase 4; TYP; HVH2; MKP2; MKP-2; dual specificity protein phosphatase 4; MAP kinase phosphatase 2; VH1 homologous phosphatase 2; dual specificity protein phosphatase hVH2; mitogen-activated protein kinase phosphatase 2; serine/threonine specific protein phosphatase; EC 3.1.3.16; EC 3.1.3.48
Gene ID	1846
mRNA Refseq	NM_001394
Protein Refseq	NP_001385
MIM	602747
UniProt ID	Q13115

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