

AR50217PU-N

Human DUSP10 / MKP5 (149-482, His-tag) - Purified

Alternate names:

Dual specificity protein phosphatase 10, MAP kinase phosphatase 5, MKP-5, Mitogen-activated protein kinase phosphatase 5

Quantity:

0.5 mg

Concentration:

0.25mg/ml (determined by Bradford assay)

Background:

DUSP10 (Dual specificity protein phosphatase 10) belongs to the protein-tyrosine phosphatase family. Dual specificity protein phosphatases (DUSPs) inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. DUSP10 has been shown to interact with MAPK14 and MAPK8. When expressed in mammalian cells, DUSP10 blocks the enzymatic activation of MAP kinases with the selectivity p38 approximately JNK/SAPK >> ERK.

Uniprot ID:

[Q9Y6W6](#)

NCBI:

[NP_009138](#)

GeneID:

[11221](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 50% glycerol, 200mM NaCl

Description:

Recombinant human DUSP10 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMMIYPN DLAKKMTKCS KSHLPSQGPV IIDCRPFMEY
NKSHIQGAVH INCADKISRR RLQQGKITVL DLISCREGKD SFKRIFSKEI IVYDENTNEP
SRVMP SQPLH IVLESLKREG KEPLVLKGGI SSFKQNHENL CDNSLQLQEC REVGGGASAA
SSLLPQPIPT TPDINAELT PILPFLFLGN EQDAQDLDTM QRLNIGYVIN VTTHLPLYHY
EKGLFNYKRL PATDSNKQNL RQYFEEAFEF IEEAHQCGKG LLIHQAGVS RSATIVIAYL
MKHTRMTMTD AYKFVKGKRP IISPNLNFMG QLLEFEEDLN NGVTPRILTP KLMGVETVV

Molecular weight: 40.4 kDa (359aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

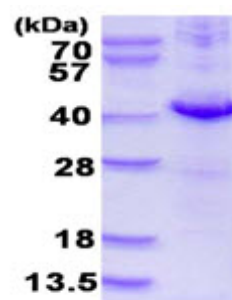
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Theodosiou A, et al. (1999) Oncogene. 18(50):6981-8. Jeong DG, et al. (2006) J Mol Biol. 360(5):946-55.

Pictures:



15% SDS-PAGE (3ug)