

Product datasheet for PH300640

DUSP4 (NM_001394) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DUSP4 MS Standard C13 and N15-labeled recombinant protein (NP_001385)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200640
Predicted MW:	43 kDa
Protein Sequence:	>RC200640 protein sequence Red=Cloning site Green=Tags(s)

MVTMEELREMDCSVLKRLMNRDENGSGAGSGSHGTLGLPSGGKCLLLDCRPFLAHSAGYILGSVNVRCN
TIVRRRAKGSVLSLEQILPAEEVRRARLRSGLYSAVIVYDERSPRAESLREDSTVSLVVQALRRNAERTDI
CLLKGGYERFSSEYPEFCSKTKALAAIPPPVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFLYLGSAH
AARRDMLDALGITALLNVSSDCPNHFEGHYQYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHC
QAGISRSATICLAYLMMKKRVRLEEAFFVVKQRRSIIISPNSFMGQLLQFESQVLATSCAAEAASPSGPL
RERKTPATPTSQFVFSFPVSVGVHSAPSSLPYLHSPITTPSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001385</u>
RefSeq Size:	5625
RefSeq ORF:	1182
Synonyms:	HVH2; MKP-2; MKP2; TYP
Locus ID:	1846



[View online »](#)

UniProt ID: [Q13115](#)

Cytogenetics: 8p12

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Phosphatase

Protein Pathways: MAPK signaling pathway

Product images:



Coomassie blue staining of purified DUSP4 protein (Cat# [TP300640]). The protein was produced from HEK293T cells transfected with DUSP4 cDNA clone (Cat# [RC200640]) using MegaTran 2.0 (Cat# [TT210002]).