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Product datasheet for PH302411

DUSP12 (NM_007240) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DUSP12 MS Standard C13 and N15-labeled recombinant protein (NP_009171)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202411
Predicted MW:	37.7 kDa
Protein Sequence:	>RC202411 protein sequence Red=Cloning site Green=Tags(s) MLEAPGPSDGCELSNPSASRVSCAGQMLEVQPGLYFGGAAAVAEPDHLREAGITAVLTVDSEEPSFKAGP GVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVLVHCHAGVSRSVAIITAFLMKTDQLPFEK AYEKLQILKPEAKMNEGFEWQLKLYQAMGYEVDTSSAIYKQYRLQKVTEKYPELQNLPQELFAVDPTTVS QGLKDEVLYKCRKCRRSLFRSSSILDHREGSGPIAFAHKRMTPSSMLTTGRQAQCTSYFIEPVQWMESAL LGVMDGQLLCPKCSAKLGSFNWYGEQCSCGRWITPAFQIHKNRVDEMKILPVLGSQTGKI 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_009171
RefSeq Size:	1271
RefSeq ORF:	1020
Synonyms:	DUSP1; YVH1
Locus ID:	11266

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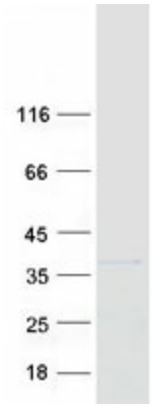
UniProt ID: Q9UNI6

Cytogenetics: 1q23.3

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 is 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 is the human ortholog of the Saccharomyces cerevisiae YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase

Product images:



Coomassie blue staining of purified DUSP12 protein (Cat# [TP302411]). The protein was produced from HEK293T cells transfected with DUSP12 cDNA clone (Cat# [RC202411]) using MegaTran 2.0 (Cat# [TT210002]).