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Product datasheet for PH309734

JIP1 (MAPK8IP1) (NM_005456) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAPK8IP1 MS Standard C13 and N15-labeled recombinant protein (NP_005447)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209734
Predicted MW:	77.5 kDa
Protein Sequence:	>RC209734 protein sequence Red=Cloning site Green=Tags(s) MAERESGGLGGGAASPPAASPFLGLHIASPPNFRLTHDISLEEFEDEDLSEITDECGISLQCKDTLSLRP PRAGLLSAGGGGAGSRLQAEMLQMDLIDATGDTPGAEDDEEDDDEERAARRPGAGPPKAESGQEPASRGQ GQSQGQSQGPGSGDTYRPKRPTTLNLFPQVPRSQDTLNNNSLGKKHSWQDRVSRSSSPLKTGEQTPPHEH ICVSDELSPQSGPAPTTGRGTSTDSPCRRSTATQMAPPGGPPAATPGGRGHSHRDRIHYQADVRLEATEE IYLTPVQRPPDAAEPTSAFLPPTESRMSVSSDPDPAAYPSTAGRPHPSISEEEEGFDCMSSPERAEPPGG GWRGSLGEPPPPPRASLSSDTSALSYDSVKYTLVVDEHAQLELVSLRPCFGDYSDESDSATVYDNCASVS SPYESAIGEEYEEAPRPQPPACLSEDSTPDEPDVHFSKKFLNVFMSGRSRSSSAESFGLFSCIINGEEQE QTHRAIFRFVPRHEDELELEVDDPLLVELQAEDYWYEAYNMRTGARGVFPAYYAIEVTKEPEHMAALAKN SDWVDQFRVKFLGSVQVPYHKGNDVLCAAMQKIATTRRLTVHFNPPSSCVLEINVRGVKIGVKADDSQEA KGNKCSHFFQLKNISFCGYHPKNNKYFGFITKHPADNRFACHVFVSEDSTKALAESVGRAFQQFYKQFVE YTCPTEDIYLE 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_005447

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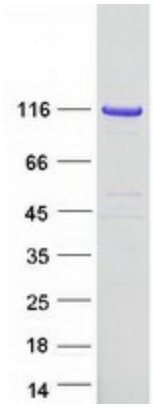
RefSeq Size:	3234
RefSeq ORF:	2133
Synonyms:	IB1; JIP-1; JIP1; PRKM8IP
Locus ID:	9479
UniProt ID:	Q9UQF2, Q6NUQ9
Cytogenetics:	11p11.2
Summary:	This gene encodes a regulator of the pancreatic beta-cell function. It is highly similar to JIP-1, a mouse protein known to be a regulator of c-Jun amino-terminal kinase (Mapk8). This protein has been shown to prevent MAPK8 mediated activation of transcription factors, and to decrease IL-1 beta and MAP kinase kinase 1 (MEKK1) induced apoptosis in pancreatic beta cells. This protein also functions as a DNA-binding transactivator of the glucose transporter GLUT2. RE1-silencing transcription factor (REST) is reported to repress the expression of this gene in insulin-secreting beta cells. This gene is found to be mutated in a type 2 diabetes family, and thus is thought to be a susceptibility gene for type 2 diabetes. [provided by RefSeq, May 2011]
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway

Product images:



Coomassie blue staining of purified MAPK8IP1 protein (Cat# [TP309734]). The protein was produced from HEK293T cells transfected with MAPK8IP1 cDNA clone (Cat# [RC209734]) using MegaTran 2.0 (Cat# [TT210002]).