

## Product datasheet for PH319839

### FAK (PTK2) (NM\_153831) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PTK2 MS Standard C13 and N15-labeled recombinant protein (NP_722560)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219839
Predicted MW:	119.1 kDa
Protein Sequence:	>RC219839 representing NM_153831 Red=Cloning site Green=Tags(s)

MAAAYLDPNLNHTPNSSTKTHLGTGMERSPGAMERVLKVFHYFESNSEPTTWASIIIRHG DATDVRGIIQK  
IVDSHKVKHVACYGFRLSHLRSEEVHWHVDMGVSSVREKYELAHPPEEWKYLIRIRYLPKGFLNQFTED  
KPTLNFFYQQVKS DYMLEIADQVDQEIALKLGCL EIRRSYWEMRGNALEKKS NYEVLEKDVGLKRFFPKS  
LLDSVKAKTLRKL IQQTFRQFANLNREESILKFFEILSPVYRFDKECFKCALGSSWIIISVELAIGPEEGI  
SYLTDKGCNPTHADFTQVQTIQYSNSEDKDRKGMQLKIAGAPEPLTVTAPSLTIAENMADLIDGYCRL  
VNGTSQSF IIRPQKEGERALPSIPKLANSEKQGMRTHAVSVSETDDYAEI IDEEDTYTMPSTRDYEIQRE  
RIELGRCIGEGQFGDVHQGIYMSPENPALAVAIKTCNKCTSDSVREKFLQEAL TMRQFDHPHIVKLI GVI  
TENPVWIIMELCTLGELRSFLQVRKYSLDLASELILYAYQLSTALAYLESKR FVHRDIAARNV LVSSNDCV  
KLGDFGLSRYMEDSTYYKASKGKLP IKWMAPE SINFRFTS ASDVWMFGVCMWEILMHGKVPFQGVKNND  
VIGRIENGERL PMPNCPPTLYSLMTKCWAYDP SRRPRFTELKAQLSTILEEEKAQQEERMESRRQAT  
VSWDSGGSD EAPPKPSRPGYSPRSSEGFYSPQHMVQTNHYQVSGYPGSHGITAMAGSIYPGQASLLDQ  
TDSWNHRPQEIAMWQPNVEDSTVLDLRGIGQVLP THLMEERLIRQQEMEEDQRWLEKEERFLKPDVRLS  
RGSIDREDGSLQGP IGNQHIYQPVGKPDPAAPPKPPRPGAPGHLGSLASLSSPADSYNEGVPWRLQPQ  
EISPPPTANLDRSNDKVYENV TGLVKAVIEMSSKIQPAPPEEYVPMVKEVGLALRTL LATVDET IPLLPA  
STHREIEMAQKLLNSDLGEL INKMKLAQQYVMTSLQQEYKQMLTAAHALAVDAKNLLDVIDQARLKMGLG  
QTRPH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

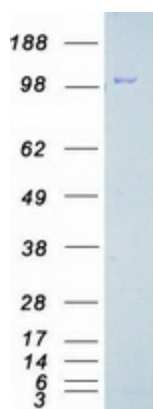
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_722560</a>
<b>RefSeq Size:</b>	4453
<b>RefSeq ORF:</b>	3165
<b>Synonyms:</b>	FADK; FADK 1; FAK; FAK1; FRNK; p125FAK; pp125FAK; PPP1R71
<b>Locus ID:</b>	5747
<b>UniProt ID:</b>	<a href="#">Q05397</a> , <a href="#">Q658W2</a> , <a href="#">Q59GM6</a>
<b>Cytogenetics:</b>	8q24.3
<b>Summary:</b>	This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Axon guidance, Chemokine signaling pathway, ErbB signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer, VEGF signaling pathway

### Product images:



Coomassie blue staining of purified PTK2 protein (Cat# [TP319839]). The protein was produced from HEK293T cells transfected with PTK2 cDNA clone (Cat# [RC219839]) using MegaTran 2.0 (Cat# [TT210002]).