

Product datasheet for PH320209

ULK3 (NM_001099436) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ULK3 MS Standard C13 and N15-labeled recombinant protein (NP_001092906)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220209
Predicted MW:	53.3 kDa
Protein Sequence:	>RC220209 representing NM_001099436 Red=Cloning site Green=Tags(s)

MAGPGWGPRLDGFILTERLGSPTYATVYKAYAKDTRVVAIKCVAKKSLNKASVENLLTEIEILKGIR
HPIHVQLKDFQWSDNIYLIMEFCAGGDLSRFIHTRRILPEKVARVFMQQLASALQFLHERNISHLDLKP
QNILLSLEKPHLKLADFGFAQHMSPWDEKHLRGSPLYMAPEMVCQRQYDARVDLWSMGVILYEALFGQ
PPFASRSFSELEEKIRSNRVIELPLRPLLSDCRDLLQRLLERDPSRRISFQDFFAHPWVDLEHMPSGES
LGRATALVVQAVKKDQEGDSAAALSLYCKALDFVVPALHYEVDAQRKEAIKAKVGQYVSRAEELKAIVSS
SNQALLRQGTSARDLLREMARKPRLAALVASAAMAKEEAAGGEQDALDLYQHSLGELLLLLAAEPPG
RRRELLHTEVQNLMARAEYLKEQVKMRESRWEADTLDEGLSESVRSCTLQ

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_001092906</u>
RefSeq Size:	2635
RefSeq ORF:	1416
Locus ID:	25989



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UniProt ID: [Q6PHR2](#), [B4DDG2](#)

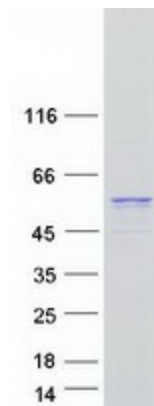
Cytogenetics: 15q24.1

Summary: Serine/threonine protein kinase that acts as a regulator of Sonic hedgehog (SHH) signaling and autophagy. Acts as a negative regulator of SHH signaling in the absence of SHH ligand: interacts with SUFU, thereby inactivating the protein kinase activity and preventing phosphorylation of GLI proteins (GLI1, GLI2 and/or GLI3). Positively regulates SHH signaling in the presence of SHH: dissociates from SUFU, autophosphorylates and mediates phosphorylation of GLI2, activating it and promoting its nuclear translocation. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently. Also acts as a regulator of autophagy: following cellular senescence, able to induce autophagy.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: mTOR signaling pathway, Regulation of autophagy

Product images:



Coomassie blue staining of purified ULK3 protein (Cat# [TP320209]). The protein was produced from HEK293T cells transfected with ULK3 cDNA clone (Cat# [RC220209]) using MegaTran 2.0 (Cat# [TT210002]).