

Recombinant Human ULK3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ULK3-2970H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ULK3 MS Standard C13 and N15-labeled recombinant protein (NP_001092906) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	53.3 kDa
AA Sequence	MAGPGWGPPRLDGFILTERLGSGTYATVYKAYAKKDTREVVAIKCVAKKSLNKASVE NLLTEIEILKGIRHPHIVQLKDFQWSDNIYLIMEFCAGGDLSRFIHTRRILPEKVARVF MQQLASALQFLHERNISHLDLKPQNILLSSLEKPHLKLADFGFAQHMSPWDEKHLVR GSPLYMAPEMVCQRQYDARVDLWSMGVILYEALFGQPPFASRSFSELEEKIRSNRV

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IELPLRPLLSRDCRDLLQRLLERDPSRRISFQDFFAHPWVDLEHMPSGESLGRATAL
 VVQAVKKDQEGDSAAALSLYCKALDFFVPALHYEVDAQRKEAIKAKVGQYVSRAEE
 LKAIVSSSNQALLRQGTSAARDLLREMARKPRLLAALEVASAAMAKEEAAGGEQDA
 LDLYQHSLGELLALLAAEPPGRRRELLHTEVQNLMARAEYLKEQVKMRESRWEADT
 LDKEGLSESVRSSCTLQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ULK3 unc-51 like kinase 3 [Homo sapiens (human)]

Official Symbol ULK3

Synonyms ULK3; unc-51 like kinase 3; serine/threonine-protein kinase ULK3; EC 2.7.11.1

Gene ID 25989

mRNA Refseq NM_001099436

Protein Refseq NP_001092906

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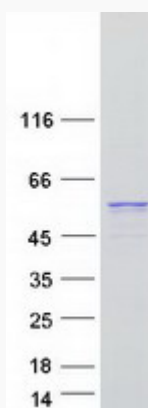
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MIM 613472

UniProt ID Q6PHR2

SDS-PAGE



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