

Recombinant Human Unc-51-Like Kinase 3 (C. elegans), His-tagged

Cat. No. ULK3-1116H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human ULK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf10 Insect Cell
Description	ULK3 or unc-51-like kinase 3 is a member of the serine/threonine kinase family that is involved in the SHH signaling pathway as a positive regulator of GLI proteins. ULK3 enhances endogenous and over-expressed GLI transcriptional activity in cultured cells and alters its subcellular localization. Furthermore, ULK3 phosphorylates GLI proteins in vitro. ULK3 is widely expressed and its expression is higher in a number of tissues where SHH signaling is known to be active, again suggesting that ULK3 is involved in the SHH pathway as a positive regulator of GLI proteins.
Applications	Kinase Assay; Western Blot
Molecular Weight	51kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.

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Specific Activity	230nmol/min/mg
Purity	>90%
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.
Pathways	Regulation of autophagy; mTOR signaling pathway

GENE INFORMATION

Gene Name	ULK3 unc-51-like kinase 3 (C. elegans) [Homo sapiens]
Official Symbol	UKL3
Synonyms	ULK3; unc-51-like kinase 3 (C. elegans); FLJ90566; DKFZp434C131; serine/threonine-protein kinase ULK3; DKFZP434C131; EC 2.7.11.1; Unc-51-like kinase 3
Gene ID	25989
mRNA Refseq	NM_001099436
Protein Refseq	NP_001092906

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MIM	613472
UniProt ID	Q6PHR2
Chromosome Location	15q24.1
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity

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