

Active Recombinant Human ULK1 Protein, 1-314, N-6×His tagged

Cat. No. ULK1-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ULK1 (amino acids 1-314) with N-terminal 6×His-tag was expressed by baculovirus in Sf21 insect cells, purified using immobilized metal affinity chromatography followed by gel filtration.
Species	Human
Source	Insect cells
ProteinLength	1-314
Description	Enables identical protein binding activity; protein serine/threonine kinase activity; and small GTPase binding activity. Involved in several processes, including autophagosome assembly; positive regulation by symbiont of host autophagy; and protein phosphorylation. Located in autophagosome; cytosol; and phagophore assembly site membrane. Is extrinsic component of autophagosome membrane; extrinsic component of omegasome membrane; and extrinsic component of phagophore assembly site membrane. Part of Atg1/ULK1 kinase complex.
Form	Frozen solution
Bio-activity	2858 U/mg, where one unit of ULK1 activity is defined as 1 nmol phosphate incorporated into 2 mg/mL casein per minute at 30 centigrade with a final ATP concentration of 100 µM.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	39 kDa
AA Sequence	MSYYHHHHHDYDIPTTENLYFQGAMDPEFMEPGRGGTETVGKFEFSRKDLIGHG AFAVVFKGRHREKHDLEVAVKCKNLAKSQTLGKEIKELKHENIVALYDFQEM ANSVYLVMEYCNGGDLADYLHAMRTLSEDTIRLFLQQIAGAMRLLHSGIHRDLKPQ NILLSNPAGRRANPNSIRVKIADFGFARYLQSNMMAATLCGSPMYMAPEVIMSQHYD GKADLWSIGTIVYQCLTGKAPFQASSPQDLRLFYEKNKTLVPTIPRETSAPLRQLLLA LLQRNHKDRMDFDEFFHHPFLDASPSVRKSPVPVPSYPSSGSGSSSSSSSTSHLA S
Purity	83% by SDS-PAGE and Coomassie blue staining
Applications	Drug Discovery and Development
Storage	On receipt of material store at -70 centigrade. Unopened reagent is stable for a minimum of 1 year from date of shipment when stored at recommended storage temperature. Avoid repeat freeze/thaw cycles. For maximum recovery of product, centrifuge original vial prior to removing the cap.
Concentration	0.45 mg/mL
Storage Buffer	50 mM Tris/HCl pH 7.5, 300 mM NaCl, 0.1 mM EGTA, 0.03% Brij-35, 270 mM sucrose, 1 mM benzamidine, 0.2 mM PMSF, 0.1% 2-mercaptoethanol.

GENE INFORMATION

Gene Name	ULK1 unc-51 like autophagy activating kinase 1 [Homo sapiens (human)]
Official Symbol	ULK1
Synonyms	ULK1; unc-51 like autophagy activating kinase 1; ATG1; ATG1A; UNC51; hATG1;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Unc51.1; serine/threonine-protein kinase ULK1; ATG1 autophagy related 1 homolog; autophagy-related protein 1 homolog; EC 2.7.11.1

Gene ID 8408

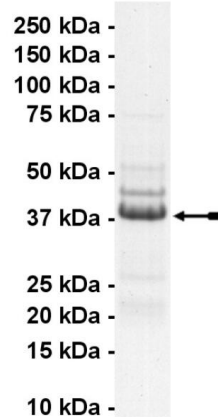
mRNA Refseq NM_003565

Protein Refseq NP_003556

MIM 603168

UniProt ID O75385

Purity

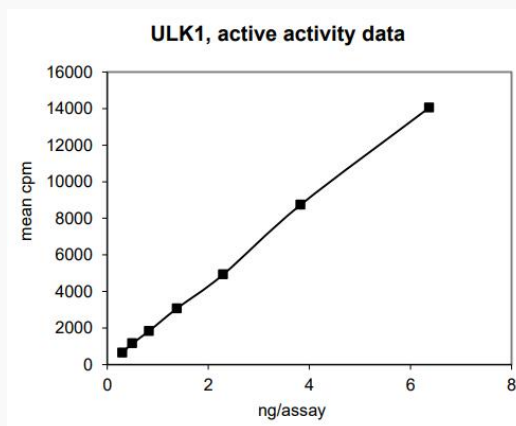


 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Kinase Assay



0.3-6.4 ng of this lot of enzyme phosphorylated 2 mg/mL casein.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA