

Product Information

ULK4, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5364**
Storage Temperature -70°C

Synonyms: DKFZp434E1822, FAM7C1, FLJ20574, REC01035

Product Description

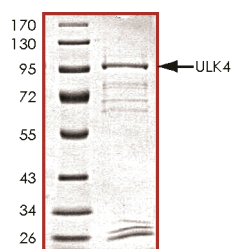
ULK4, or Unc-51-like kinase 4, is a Ser/Thr protein kinase that is a member of the APG1/unc-51/ULK1 subfamily. ULK4 contains five HEAT repeats and a catalytic kinase domain. The ULK4 gene is conserved in many species including chimpanzee, dog, cow, mouse, rat, chicken, zebrafish, *A. thaliana*, and rice.¹ ULK4 has been implicated as a gene involved in the development of hydrocephalus.² This neurologic disorder in animal models is being used to elucidate factors responsible for the excessive accumulation of cerebrospinal fluid in hydrocephalic humans.

Recombinant human ULK4 (1-616) was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is NM_017886. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~97 kDa

The enzymatic activity of this product has not been determined.

Figure 1.
SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Krupnova, T. et al., Microtubule-associated kinase-like protein RUNKEL needed [corrected] for cell plate expansion in Arabidopsis cytokinesis. *Curr Biol.*, **19**(6), 518-23 (2009).
2. Vogel, P. et al., Congenital Hydrocephalus in Genetically Engineered Mice. *Vet. Pathol.*, **49**(1), 166-181 (2012).

RC,MAM 10/12-1