

Recombinant Human Intestinal Cell (MAK-like) Kinase, GST-tagged

Cat. No. ICK-1026H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human ICK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	ICK or intestinal cell kinase belongs to a very extensive family of proteins that share a conserved catalytic core common with both serine/threonine and tyrosine protein kinases. ICK encodes an intestinal serine/threonine kinase harboring a dual phosphorylation site found in mitogen-activating protein (MAP) kinases. ICK localizes to the intestinal crypt region and is thought to be important in intestinal epithelial cell proliferation and differentiation. ICK purified from transfected human embryonic kidney cells undergoes autophosphorylation and phosphorylates a test protein. ICK plays a key role in development of central nervous, skeletal, and endocrine systems.
Applications	Kinase Assay; Western Blot
Molecular Weight	98 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0,25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Specific Activity	4.8 mmol/min/mg
Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. 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.

GENE INFORMATION

Gene Name	ICK intestinal cell (MAK-like) kinase [Homo sapiens]
Official Symbol	ICK
Synonyms	ICK; intestinal cell (MAK-like) kinase; ECO; MRK; LCK2; KIAA0936; MGC46090; serine/threonine-protein kinase ICK; hICK; MAK-related kinase; OTTHUMP00000016630; laryngeal cancer kinase 2; serine/threonine protein kinase; NP_055735.1; EC 2.7.11.22; NP_057597.2; Laryngeal cancer kinase 2; Intestinal cell kinase; EC 2.7.11
Gene ID	22858
mRNA Refseq	NM_014920
Protein Refseq	NP_055735
MIM	612325

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UniProt ID Q9UPZ9

**Chromosome
Location** 6p12.1

Function ATP binding; cyclin-dependent protein kinase activity; magnesium ion binding;
nucleotide binding; protein serine/threonine kinase activity

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