

Recombinant Human FUK, His-tagged

Cat. No. FUK-13033H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FUK protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	695-1084a.a.
Description	The protein encoded by this gene belongs to the GHMP (galacto-, homoserine, mevalonate and phosphomevalonate) kinase family and catalyzes the phosphorylation of L-fucose to form beta-L-fucose 1-phosphate. This enzyme catalyzes the first step in the utilization of free L-fucose in glycoprotein and glycolipid synthesis. L-fucose may be important in mediating a number of cell-cell interactions such as blood group antigen recognition, inflammation, and metastasis. While several transcript variants may exist for this gene, the full-length nature of only one has been described to date.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	FUK fucokinase [Homo sapiens]
Official Symbol	FUK
Synonyms	FUK; fucokinase; L-fucose kinase; FLJ39408; L fucose kinase; 1110046B12Rik;
Gene ID	197258
mRNA Refseq	NM_145059
Protein Refseq	NP_659496
MIM	608675
UniProt ID	Q8NOW3
Chromosome Location	16q22.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; GDP-L-fucose biosynthesis II (from L-fucose), organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; fucokinase activity; nucleotide binding;