

Recombinant Human MATK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MATK-6365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MATK MS Standard C13 and N15-labeled recombinant protein (NP_647611) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene has amino acid sequence similarity to Csk tyrosine kinase and has the structural features of the CSK subfamily: SRC homology SH2 and SH3 domains, a catalytic domain, a unique N terminus, lack of myristylation signals, lack of a negative regulatory phosphorylation site, and lack of an autophosphorylation site. This protein is thought to play a significant role in the signal transduction of hematopoietic cells. It is able to phosphorylate and inactivate Src family kinases, and may play an inhibitory role in the control of T-cell proliferation. This protein might be involved in signaling in some cases of breast cancer. Three alternatively spliced transcript variants that encode different isoforms have been described for this gene.
Molecular Mass	56.5 kDa
AA Sequence	MAGRGSLSWRAFHGCDSEELPRVSPRFLRAWHPPVVSARMPTRRWAPGTQCI TKCEHTRPKPGELAFRKGDVVTILEACENKSWYRVKHHTSGQEGLLAAGALREREA LSADPKLSLMPWFHKGISGQEAVQQLQPPEDGLFLVRESARHPGDYVLCVSFGRDV IHRYVLHRDGHILTIDEAVFFCNLMDMVEHYSKDKGAICTKLVRPKRKHGTKSAEEEL

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ARAGWLLNLQHLLTGAQIGEGEFGAVLQGEYLGQKQVAVKNIKCDVTAQAFLDETAV
MTKMQHENLVRLLGVLHQGLYIVMEHVSKGNLVNFLRTRGRALVNTAQLLQFSLHV
AEGMEYLESKKLVHRDLAARNILVSEDLVAKVSDFGGLAKAERKGLDSSRLPVKWTAP
EALKHGKFTSKSDVWSFGVLLWEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPPEG
CPGPVHVLMSSCWEAEPARRPPFRKLAEKLARELRSAGAPASVSGQDADGSTSPR
SQEPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MATK megakaryocyte-associated tyrosine kinase \[Homo sapiens \(human\) \]](#)

Official Symbol [MATK](#)

Synonyms MATK; megakaryocyte-associated tyrosine kinase; CHK; CTK; HYL; Lsk; HYLTK; HHYLTK; megakaryocyte-associated tyrosine-protein kinase; CSK homologous kinase; Csk-homologous kinase; Csk-type protein tyrosine kinase; HYL tyrosine kinase; hematopoietic consensus tyrosine-lacking kinase; hydroxyaryl-protein kinase; leukocyte carboxyl-terminal src kinase related; protein kinase HYL; tyrosine kinase MATK; tyrosine-protein kinase CTK; tyrosylprotein kinase; EC 2.7.10.2

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Gene ID	4145
mRNA Refseq	NM_139354
Protein Refseq	NP_647611
MIM	600038
UniProt ID	P42679
SDS-PAGE	