

Recombinant Human Megakaryocyte-Associated Tyrosine Kinase, His-tagged

Cat. No. MATK-5451H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length MATK, His-tagged. No special measures were taken to activate thiskinase.
Species	Human
Source	E.coli
Description	MATK encoded bythis gene has amino acid sequence similarity to Csk tyrosine kinase and has the structural features of the CSK subfamily: SRC homology SH2 and SH3domains, a catalytic domain, a unique N terminus, lack of myristylationsignals, lack of a negative regulatory phosphorylation site, and lack of anautophosphorylation site. This protein is thought to play a significant rolein the signal transduction of hematopoietic cells. It is able tophosphorylate and inactivate Src family kinases, and may play an inhibitoryrole in the control of T-cell proliferation. This protein might be involvedin signaling in some cases of breast cancer. Three alternatively splicedtranscript variants that encode different isoforms have been described forthis gene.
Form	Liquid in 20 mMHEPES, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.5 mM EGTA + 0.05% CHAPS + 5 mMDTT + 50% glycerol
Molecular Weight	53.0 kDa
Concentration	0.4 mg/ml

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Purity	≥ 90% as determined by SDS-PAGE analysis
Specific Activity	490 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 4 µg/ml.
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	MATK
Full Length	Full L.

GENE INFORMATION

Gene Name	MATK megakaryocyte-associated tyrosine kinase [Homo sapiens]
Synonyms	MATK; megakaryocyte-associated tyrosine kinase; CHK; CTK; HYL; Lsk; HYLTK; HHYLTK; MGC1708; MGC2101; DKFZp434N1212; megakaryocyte-associated tyrosine-protein kinase; protein kinase HYL; HYL tyrosine kinase; tyrosine kinase MATK; Csk-homologous kinase; tyrosylprotein kinase; hydroxyaryl-protein kinase; tyrosine-protein kinase CTK; Csk-type protein tyrosine kinase; leukocyte carboxyl-terminal src kinase related; hematopoietic consensus tyrosine-lacking kinase; EC 2.7.10.2
Gene ID	4145
mRNA Refseq	NM_139354
Protein Refseq	NP_647611
MIM	600038

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UniProt ID	P42679
Chromosome Location	19p13.3
Pathway	IL-3 SignalingPathway; Kit Receptor Signaling Pathway; Neurotrophic factor-mediated Trkreceptor signaling; Neurotrophin signaling pathway; Signaling events mediatedby Stem cell factor receptor (c-Kit)
Function	ATP binding;non-membrane spanning protein tyrosine kinase activity; nucleotide binding;protein tyrosine kinase activity
PDB rendering basedon 1jwo.	

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