

Active Recombinant Human TXK, GST-tagged

Cat. No. TXK-1504H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TXK (239-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	239 aa-end
Description	TXK or RLK is a member of the TEC family of non-receptor tyrosine kinases. TXK is expressed in T-cells and is an important component of signaling pathways downstream of lymphocyte antigen receptor. TXK is phosphorylated in response to T-cell receptor stimulation and can be activated by phosphorylation by Src family kinases. However, TXK is phosphorylated independent of PI-3K activity. Excessive TXK protein expression is seen in patients with Behcets disease. Over production of TXK leads to increased Th1 cell function that is involved in the pathogenesis of Behcet's disease.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	18 nmol/min/mg
Molecular Mass	~53 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	TXK TXK tyrosine kinase [Homo sapiens]
Official Symbol	TXK
Synonyms	TXK; TXK tyrosine kinase; PTK4, PTK4 protein tyrosine kinase 4; tyrosine-protein kinase TXK; BTKL; PSCTK5; RLK; TKL; tyrosine kinase; protein-tyrosine kinase 4; resting lymphocyte kinase; PTK4 protein tyrosine kinase 4; PTK4; MGC22473;
Gene ID	7294
mRNA Refseq	NM_003328
Protein Refseq	NP_003319
MIM	600058
UniProt ID	P42681
Chromosome Location	4p12

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Pathway	Focal Adhesion, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	ATP binding; DNA binding; RNA polymerase II regulatory region DNA binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding;

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