

Recombinant Human Serine/Threonine Kinase 10, His-tagged

Cat. No. STK10-555H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human LOK was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal His tag. MW=43.2 kDa.
Species	Human
Source	Sf9 Cells
Description	LOK is a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. LOK can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression. LOK can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway. MEKK1 and LOK have opposing roles in regulating the enhancer element of the IL-2 gene during T-cell activation. While MEKK1 is responsible for the CD28 signalling pathway that activates the CD28 response element, co-expression of LOK attenuates these effects.
Purity	60%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 1 mM DTT.
Stability	>6 months at –80°C.

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GENE INFORMATION

Gene Name	STK10 serine/threonine kinase 10 [Homo sapiens]
Synonyms	STK10; serine/threonine kinase 10; LOK; PRO2729; lymphocyte-oriented kinase; EC 2.7.11.1
Gene ID	6793
mRNA Refseq	NM_005990
Protein Refseq	NP_005981
MIM	603919
UniProt ID	O94804
Chromosome Location	5q35.1
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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