

## LOK Protein, Human (His)

Cat. No.:	HY-P73282
Synonyms:	Serine/threonine-protein kinase 10; STK10; LOK
Species:	Human
Source:	E. coli
Accession:	O94804 (R18-E317)
Gene ID:	6793
Molecular Weight:	Approximately 40 kDa

### PROPERTIES

Biological Activity	The specific activity was determined to be >200 nmol/min/mg using synthetic AXLTide peptide (KKSRGDYMTMQIG) as substrate.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	LOK, a serine/threonine-protein kinase, plays a significant role in the regulation of lymphocyte migration. It achieves this by phosphorylating key targets such as MSN and potentially PLK1, while also acting as a negative regulator of MAP3K1/MEKK1. LOK's involvement in the orchestration of lymphocyte migration is particularly notable, as it mediates the phosphorylation of ERM proteins, exemplified by MSN. Moreover, LOK may extend its influence as a cell cycle regulator, potentially functioning as a polo kinase kinase, as suggested by its ability to phosphorylate PLK1 in vitro; however, the confirmation of such regulatory roles in vivo awaits additional empirical evidence.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA