

Recombinant Human LIMK1 Protein (285-638), N-GST tagged

Cat. No. LIMK1-39H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human LIMK1 (285-638) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	285-638
Description	LIMK1 or LIM domain kinase 1 contains a unique combination of 2 N-terminal LIM domain and a C-terminal protein kinase domain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers that can bind to DNA/RNA as well as mediating protein-protein interactions (1). LIMK1 is thought to be a component of an intracellular signaling pathway that may be involved in brain development especially development of nerve cells. LIMK1 may play an important role in areas of the brain that are responsible for processing visual-spatial information (visuospatial constructive cognition). LIMK1 can regulate aspects of the cytoskeleton, the structural framework that helps to determine cell shape, size, and movement (2).
Molecular Mass	Observed MW: ~66 kDa Calculated MW: ~66 kDa
Purity	~90%
Stability	One year at –70 centigrade from date of shipment.

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 µg/µL
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, and 25% glycerol.
Shipping	Dry ice
GENE INFORMATION	
Gene Name	LIMK1 LIM domain kinase 1 [Homo sapiens (human)]
Official Symbol	LIMK1
Synonyms	LIMK1; LIM domain kinase 1; LIMK; LIM motif-containing protein kinase; LIMK-1;
Gene ID	3984
mRNA Refseq	NM_002314
Protein Refseq	NP_002305
MIM	601329
UniProt ID	P53667
Purity	The purity of LIMK1 was determined to be ~90% by densitometry.

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