

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

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

SPECIFICATION

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| 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 | <p>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).</p> |
| Molecular Mass | Observed MW: ~66 kDa Calculated MW: ~66 kDa |
| Purity | ~90% |
| Stability | One year at -70 centigrade from date of shipment. |

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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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