

## L1CAM Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms: MIC5;N-CAM-L1;L1CAM;CAML1;NCAM-L1;CD171;Neural cell adhesion molecule L1

Protein Construction: 20-1120 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P32004

Molecular Weight: 128.2 kDa (predicted)

AA Sequence:

IQIPEEYEGHHVMEPPVITEQSPRRLLVVFPTDDISLKCEASGKPEVQFRWTRDGVHFKPKEELGVTVYQSPHSG  
SFTITGNNSNFAQRFRQGIYRCFASNKLGAMSHIIRLMAEGAPKWPKETVKPVEVEEGESVVLPCNPPPSAEP  
LRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSNHSYIACHAFPGRTRTIIQKEPIDLRVKATNSMIDRKP  
RLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRVTYQNHKTLQLLKVGEEDDGEYRCL  
AENSLGSARHAYVTVVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEELAKDQKYRIQ  
RGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVQLPAKILTADNQTYMAVQGSTAYLLCKAFGAPVPS  
VQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPRSTIE  
KKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGSDSKYFIEDGRLVIHSLDYSYDQGNYSVASTELDVVES  
RAQLLVVGGSPGPVPRVLVSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTS  
TTLKLSPIVHYTFRVTAINKYGPGEPSVSETVVTPEAAPEKNPVDVKGEGNETTMVITWKPLRWMDWNAP  
QVQYRVQWRPQGRGPWQEIVSDPFLVVSNTSTFVPEIKVQAVNSQGGKPEPQVTIGYSGEDYPQAIPEL  
EGIEILNSSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHHKDHVVVPANTTSVILSGLRPYSSY  
HLEVQAFNGRSGPASEFTFSTPEGVPGHPEALHLECQSNLTLRQWQPPLSHNGVLTGYVLSYHPLDEGGK  
GQLSFNLRDPELRTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVSW  
VPKEGQCNFRFHILFKALGEEKGGASLSPQYVSYNQSSYTQWDLQPDYDYEIHLFKERMFRHQMAVKTNGT  
GRVRLPPAGFATE

## QC Testing

Biological Activity: Measured by its binding ability in a functional ELISA. Immobilized L1CAM at 2 µg/mL can bind Anti-L1CAM Rabbit Monoclonal Antibody, the EC 50 is 5.384-9.380 ng/mL.

Purity: > 95% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

## Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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### Protein Background

Neural cell adhesion molecule involved in the dynamics of cell adhesion and in the generation of transmembrane signals at tyrosine kinase receptors. During brain development, critical in multiple processes, including neuronal migration, axonal growth and fasciculation, and synaptogenesis. In the mature brain, plays a role in the dynamics of neuronal structure and function, including synaptic plasticity.

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