

32-8808: Recombinant Human Neural Cell Adhesion Molecule 1/NCAM-1/CD56 (C-6His)

Gene : NCAM1

Gene ID : 4684

Uniprot ID : P13591

Description

Source: Human Cells.

MW :65.5kD.

Recombinant Human Neural cell adhesion molecule 1 is produced by our expression system and the target gene encoding Leu20-Pro603 is expressed with a 6His tag at the C-terminus. Neural cell adhesion molecule 1 (NCAM-1) is a single-pass type I membrane protein, it belongs to a family of membrane-bound glycoproteins that are involved in Ca²⁺ independent cell matrix and homophilic or heterophilic cell-cell interactions. NCAM-1 is synthesized as a 761 aa preproprecursor that contains a 19 aa signal sequence, a 722 aa GPI-linked mature region, and a 20 aa C-terminal prosegment. The molecule contains five C-2 type Ig-like domains and two fibronectin type-III domains. NCAM-1 is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. Acting as a receptor for rabies virus, NCAM-1 in the adult brain shows a decline of sialylation relative to earlier developmental periods.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH8.0.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : LQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPNGEKLTPNQQRISVVWNDDSSSTLTINYANIDDAAGIY KCVVTGEDGSESEATVNVKIFQKLMFKNAPTQEFREGEDAVIVCDVSSLPTTIWKHKGRDVLKKDVRFIVLS NNYLQIRGIKKTDEGTYRCEGRILARGEINFKDIQVIVNVPPTIQRQNIVNATANLGQSVTLVCD AEGFPEPTMS WTKDGEQIEQEEDDEKYIFSDDSSQLTIKKVDKNDEAEYICIAENKAGEQDATIHLKVFAPKITYVENQTAMELE EQVTLTCEASGDPIPSITWRTSTRNISSEKTLDGHMVVRSHARVSSLTKSIQYTDAGEYICTASNTIGQDSQS MYLEVQYAPKLQGPVAVYTWEGNQVNITCEVFAYPSATISWFRDGQLLPSSNYSNIKIYNTPSASYLEVTPDSEN DFGNYNCTAVNRIGQESLEFILVQADTPSSPSIDQVEPYSSTAQVQFDEPEATGGVPILKYAEWRAVGEEVWH SKWYDAKEASMEGIVTIVGLKPETTYAVRLAALNGKGLGEISAASEFKTQPVHSPPPHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.