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**Product Data Sheet**


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Product Name: NCAM1 Human  
 Cat. No.: GP26313  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Neural cell adhesion molecule 1, Neural cell adhesion molecule 1 isoform3, N-CAM-1, NCAM-1, CD56, NCAM1, NCAM, MSK39		
Amino Acid Sequence	ADPLQVDIVP SQGEISVGES KFFLCQVAGD AKDKDISWFS PNGEKLTNPQ QRISVWVWDD SSSTLTIYNA NIDDAGIYKC VVTGEDGSES EATVNVKIFQ KLMFKNAPTP QEFREGEDAV IVCDVVSSLP PTIIWKHKGR DVILKKDVERF IVLSNNYLQI RGIKKTDEGT YRCEGRILAR GEINFKDIQV IVNVPPTIQA RQNIVNATAN LGQSVTLVCD AEGFPEPTMS WTKDGGEQIEQ EEDDEKYIFS DDSSQLTIKK VDKNDEAEYI CIAENKAGEQ DATIHLKVFA KPKITYVENQ TAMELEEQVT LTCEASGDPI PSITWRTSTR NISSEKTLTD GHMVVRSHAR VSSLTLKSIQ YTDAGEYICT ASNTIGQDSQ SMYLEVQYAP KLQGPVAVYT WEGNQVNITC EVFAYPSATI SWFRDQGQLP SSNYSNIKIY NTPSASYLEV TPDSENDFGN YNCTAVNRIG QESLEFILVQ ADTPSSPSID QVEPYSSTAQ VQFDEPEATG GVPILKYKAE WRAVGEEVWH SKWYDAKEAS MEGIVTIVGL KPETTYAVRL AALNGKGLGE ISAASEFKTQ PVHSPPPHHH HHH		
Formulation	The NCAM1 solution (1mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Neural Cell Adhesion Molecule 1 (NCAM1) is part of the immunoglobulin superfamily. NCAM1 binds specifically to neurite fasciculation, neuron-neuron adhesion, outgrowth of neurites, and more. The polysialylation of NCAM1 reduces its adhesive property and increases its neurite outgrowth promoting features. NCAM1 is mainly expressed in NK cells and a subset of T lymphocytes that mediate MHC-unrestricted cell-mediated cytotoxicity. High expression of NCAM-1 differentiates NK cells as having an activated phenotype. During hematopoiesis, NCAM1 plays a role as the prototypic marker of NK cells.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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and also present on subset of CD4+, CD8+ and T cells. In cell adhesion, NCAM1 contributes to cell-cell adhesion during embryonic development.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NCAM1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 593 amino acids (20-603 a.a) and having a molecular mass of 65.7kDa. NCAM1 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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