

## NCAM-1/CD56 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78764
Synonyms:	CD56; MSK39; NCAM1; N-CAM-1
Species:	Mouse
Source:	HEK293
Accession:	P13595 (L20-T711)
Gene ID:	17967
Molecular Weight:	approximately 110-130 kDa

### PROPERTIES

#### AA Sequence

LQVDIVPSQG	EISVGESKFF	LCQVAGDAKD	KDISWFSPNG
EKLSPNQQR I	SVVWNNDDSS	TLTIYNANID	DAGIYKCVVT
AEDGTQSEAT	VNVKIFQKLM	FKNAPTPEF	KEGEDAVIVC
DVVSSLPPTI	IWKHKGRDVI	LKKDVRFIVL	SNNYLQIRGI
KKTDEGTYRC	EGRILARGEI	NFKDIQVIVN	VPPTVQARQS
IVNATANLGQ	SVTLVCDADG	FPEPTMSWTK	DGEPIENEEE
DDEKHFISDD	SSELTIRNVD	KNDEAEYVCI	AENKAGEQDA
SIHLKVFAKP	KITYVENQTA	MELLEEQTTLT	CEASGDPIPS
ITWRTSTRNI	SSEKTLDGH	MVVRSHARVS	SLTLKSIQYT
DAGEYICTAS	NTIGQDSQSM	YLEFQYAPKL	QGPVAVYTWE
GNQVNITCEV	FAYPSATISW	FRDGQLLPSS	NYSNIKIYNT
PSASYLEVTP	DSENDFGNYN	CTAVNRIGQE	SLEFILVQAD
TPSSPSIDRV	EPYSSTAQVQ	FDEPEATGGV	PILKYKAEWK
SLGEESWHFK	WYDAKEANME	GIVTIMGLKP	ETRYSVRLAA
LNGKGLGEIS	AATEFKTQPV	REPSAPKLEG	QMGEDGNSIK
VNLIKQDDGG	SPIRHYLVKY	RALASEWKPE	IRLPSGSDHV
MLKSLDWNAE	YEVYVVAENQ	QGKSKAAHFV	FRTSAQPTAI
PANGSPTAGL	ST		

<b>Biological Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of Neuro-2a cells. The ED <sub>50</sub> this effect is 0.1865 μg/mL, corresponding to a specific activity is 5.36×10 <sup>3</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 μm filtered solution of 50 mM Tris, 500 mM NaCl, pH 7.5.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability**

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION****Background**

The NCAM-1/CD56 protein takes on a pivotal role as a cell adhesion molecule, participating in neuron-neuron adhesion, neurite fasciculation, and the outgrowth of neurites. It engages in interactions with MDK and forms a complex with SLC39A6, SLC39A10, and itself. This complex intricately regulates NCAM-1 phosphorylation and facilitates its integration into focal adhesion complexes during epithelial-to-mesenchymal transition, as observed in studies. The versatile involvement of NCAM-1 in cell adhesion and signaling processes highlights its significance in mediating complex cellular interactions critical for neuronal development and transitions between epithelial and mesenchymal states.

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

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