

## Product Data Sheet

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

Cat. No.:	HY-P73749A
Synonyms:	CD56; MSK39; NCAM-1; Neural cell adhesion molecule 1; NCAM
Species:	Rat
Source:	HEK293
Accession:	P13596 (L20-T721)
Gene ID:	24586
Molecular Weight:	approximately 130 kDa

## PROPERTIES

AA Sequence	LQVDIVPSQG	EISVGESKFF	LCOVAGDAKD	KDISWFSPNG	
	EKLSPNQQRI	SVVWNDDDSS		DAGIYKCVVT	
	AEDGTQSEAT	VNVKIFQKLM	FKNAPTPQEF	KEGEDAVIVC	
	DVVSSLPPTI	IWKHKGRDVI	LKKDVRFIVL	SNNYLQIRGI	
	KKTDEGTYRC	EGRILARGEI	NFKDIQVIVN	VPPTVQARQS	
	IVNATANLGQ	SVTLVCDADG	F P E P T M S W T K	DGEPIENEEE	
	DDEKHIFSDD	SSELTIRNVD	KNDEAEYVCI	AENKAGEQDA	
	SIHLKVFAKP	KITYVENQTA	MELEEQVTLT	CEASGDPIPS	
	ITWRTSTRNI	SSEEKASWTR	PEKQETLDGH	MVVRSHARVS	
	SLTLKSIQYT	DAGEYICTAS	NTIGQDSQSM	YLEVQYAPKL	
	QGPVAVYTWE	GNQVNITCEV	FAYPSATISW	FRDGQLLPSS	
	NYSNIKIYNT	PSASYLEVTP	DSENDFGNYN	CTAVNRIGQE	
	SLEFILVQAD	TPSSPSIDRV	EPYSSTAQVQ	FDEPEATGGV	
	PILKYKAEWK	SLGEEAWHSK	WYDAKEANME	GIVTIMGLKP	
	ETRYAVRLAA		AATEFKTOPV	REPSAPKLEG	
			C C		
	QMGEDGNSIK	VNLIKQDDGG	SPIRHYLVKY	RALASEWKPE	
	IRLPSGSDHV	MLKSLDWNAE	YEVYVVAENQ	QGKSKAAHFV	
	FRTSAQPTAI	PANGSPTAGL	S T		
<b>Biological Activity</b>	Measured by the ability of	f the immobilized protein to	support the adhesion of Neu	ıro-2a human T-lymphocyte leul	kemia
Diotogicalitettity			ng to a specific activity is 1.1		iterina -
	cetts. The ED50 this cheet		ng to a specific activity is 1.1	5×10 5 units/ing.	
Appearance	Lyophilized powder.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 um	filtered solution of 50 mM T	ris-HCL, 300 mM NaCl, pH 7.	1	
- officiation			no net, oto nin naet, pri i.		
Endotoxin Level	<1 EU/µg, determined by	I AL method			
Endotoxin Level	<1 L0/μg, determined by	LAL Method.			
Reconsititution					_
Reconstitution				dH <sub>2</sub> O. For long term storage it is	S
	recommended to add a ca	arrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).	

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	NCAM-1/CD56 Protein, a cell adhesion molecule, plays a pivotal role in various neuronal processes, including neuron-neuron adhesion, neurite fasciculation, and outgrowth of neurites. It interacts with MDK, contributing to the intricate cellular interactions in neural development. Furthermore, NCAM-1 is part of a complex involving SLC39A6, SLC39A10, and NCAM1 itself, which regulates NCAM1 phosphorylation and facilitates its integration into focal adhesion complexes during epithelial-to-mesenchymal transition. This underscores the dynamic involvement of NCAM-1 in cell adhesion and signaling events, emphasizing its importance in both neural development and cellular processes associated with epithelial-to-

mesenchymal transition.

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

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