

Product Data Sheet

Neprilysin/CD10 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P75607	
Synonyms:	Neprilysin; Atriopeptidase; CALLA; NEP; SFE; CD10; MME	
Species:	Rhesus Macaque	
Source:	HEK293	
Accession:	F7H3Y6 (Y52-W750)	
Gene ID:	707667	
Molecular Weight:	Approximately 95 kDa	

PROPERTIES

AA Sequence					
	YDDGICKSSD	CIKSAARLIQ	ΝΜΟΑΤΑΕΡΟΑ	DFFKYACGGW	
	LKRNVIPETS	SRYGNFDILR	DELEVVLKDV	LQEPKTEDIV	
	AVQKAKTLYR	SCINESAIDS	RGGEPLLKLL	PDIYGWPVAT	
	ENWEQKYGAS	WTAEKAIAQL	NSKYGKKVLI	NLFVGTDDKN	
	SVNHVIHIDQ	PRLGLPSRDY	ΥΕϹΤGΙΥΚΕΑ	CTAYVDFMIS	
	VARLIRQEER	LPIDENQLAL	ЕМNКVMELEK	ΕΙΑΝΑΤΑΚΡΕ	
	DRNDPMLLYN	K M T L A Q L Q S N	FSLEINGKPF	SWLNFTNEIM	
	STVNISITNE	EDVVVYAPEY	LTKLKPILTK	Y S A R D L Q N L M	
	SWRFIMDLVS	SLSRTYKESR	NAFRKALYGT	T S E T A T W R R C	
	ANYVNGNMEN	AVGRLYVEAA	FAGESKHVVE	DLIAQIREVF	
	IQTLDDLTWM	DAETKKRAEE	KALAIKERIG	YPDDIVSNDN	
	KLNNEYLELN	YKEDEYFENI	IQNLKFSQSK	QLKKLREKVD	
	KDEWISGAAV	VNAFYSSGRN	QIVFPAGILQ	P P F F S A Q Q S N	
	SLNYGGIGMV	IGHEITHGFD	DNGRNFNKDG	D L V D W W T Q Q S	
	ASNFKEQSQC	MVYQYGNFSW	DLAGGQHLNG	INTLGENIAD	
	NGGIGQAYRA	YQNYVKKNGE	EKLLPGLDLN	HKQLFFLNFA	
	QVWCGTYRPE	YAVNSIKTDV	HSPGNFRIIG	TLQNSAEFSE	
	AFHCRKNSYM	NPEKKCRVW			
Biological Activity	Measured by its ability to	cleave a pentide substrate	Mca-(ala7 lys(dnn)9)-bradyki	nin. Read at excitation and emission	
Diological Activity				$L/min/\mu g$, as measured under the	
	described conditions.				
Appearance	Lyophilized powder				
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ 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	MME is a cell-surface peptidase member of the M13 family of zinc peptidases, which also includes endothelin converting enzymes (ECE-1 and ECE-2), KELL and PEX. MME cleaves peptide bonds on the amino side of hydrophobic amino acids and is the key enzyme in processing of a variety of physiologically active peptides, such as GRP, neurotensin (NT), and vasoactive intestinal peptide (VIP). MME is downregulated in nearly 50% of primary and metastatic prostate cancers, independently		

tumorigenicity of prostate cancer cells in xenograft experiments^[1].

predicting an inferior prognosis. In addition to its downregulation by androgen withdrawal, MME expression is also

downregulated by methylation, suggesting its tumor-suppressive effects. Indeed, MME expression reduces growth, motility, and survival of prostate cancer cells in cell culture. Consistent with these observations, replacements of MME inhibit

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

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