

MME Protein, Human (HEK293, His, Solution)

Cat. No.:	HY-P72505
Synonyms:	Neprilysin; Atriopeptidase; CALLA; NEP; SFE; CD10
Species:	Human
Source:	HEK293
Accession:	P08473 (Y52-W750)
Gene ID:	4311
Molecular Weight:	94-100 kDa

PROPERTIES

AA Sequence

YDDGICKSSD	CIKSAARLIQ	NMDATTEPCT	DDFKYACGGW
LKRNVIPETS	SRYGNFDIR	DELEVVLKDV	LQEPKTEDIV
AVQKAKALYR	SCINESAIDS	RGGEPLLLKLL	PDIYGWPVAT
ENWEQKYGAS	WTAEKAI AQL	NSKYGKKVLI	NLFVGTDDKN
SVNHVIHIDQ	PRLGLPSRDY	YECTGIYKEA	CTAYVDFMIS
VARLIRQEER	LPIDENQLAL	EMNKVMELEK	EIANATAKPE
DRNDPMLLYN	KMTLAQIQNN	FSLEINGKPF	SWLNFTNEIM
STVNISITNE	EDVVVYAPEY	LTKLKPILTK	YSARDLQNLN
SWRFIMDLVS	SLSRTYKESR	NAFRKALYGT	TSETATWRRC
ANYVNGNMEN	AVGRLYVEAA	FAGESKHVVE	DLIAQIREVF
IQTLLDDL TWM	DAETKKRAEE	KALAIKERIG	YPDDIVSNDN
KLNNEYLELN	YKEDEYFENI	IQNLKFSQSK	QLKKLREKVD
KDEWISGA AV	VNAFYSSGRN	QIVFPAGILQ	PPFFSAQQSN
SLNYGGIGMV	IGHEITHGFD	DNGRNFNKDG	DLVDWWTQQS
ASNFKEQSQC	MVYQYGNFSW	DLAGGQHLNG	INTLGENIAD
NGGLGQAYRA	YQNYIKKNGE	EKLLPGLDLN	HKQLFFLNFA
QVWCGTYRPE	YAVNSIKTDV	HSPGNFR IIG	TLQNSAEFSE
AFHCRKNSYM	NPEKKCRVW		

Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice.

DESCRIPTION**Background**

The MME Protein demonstrates a thermolysin-like specificity, predominantly acting on polypeptides of up to 30 amino acids. Biologically crucial, it plays a key role in the degradation of opioid peptides, including Met- and Leu-enkephalins, achieved through the cleavage of a Gly-Phe bond. Additionally, MME catalyzes the cleavage of bradykinin, substance P, and neurotensin peptides and is capable of cleaving angiotensin-1, angiotensin-2, and angiotensin 1-9. The protein is involved in the degradation of atrial natriuretic factor (ANF) and brain natriuretic factor (BNP(1-32)). Furthermore, MME displays UV-inducible elastase activity toward skin preelastic and elastic fibers.

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

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