

## MME Protein, Human (HEK293, N-His)

<b>Cat. No.:</b>	HY-P72505A
<b>Synonyms:</b>	Neprilysin; Atriopeptidase; CALLA; NEP; SFE; CD10
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P08473 (Y52-W750)
<b>Gene ID:</b>	4311
<b>Molecular Weight:</b>	81-110 kDa

### PROPERTIES

#### AA Sequence

YDDGICKSSD	CIKSAARLIQ	NMDATTEPCT	DDFFKYACGGW
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
IQTLLDRLTWM	DAETKKRAEE	KALAIKERIG	YPDDIVSNDN
KLNNEYLELN	YKEDYFENI	IQNLKFSQSK	QLKKLREKVD
KDEWISGAAV	VNAFYSSGRN	QIVFPAGILQ	PPFFSAQQSN
SLNYGGIGMV	IGHEITHGFD	DNGRNFNKDG	DLVDWWTQQS
ASNFKEQSQC	MVYQYGNFSW	DLAGGQHLLNG	INTLGENIAD
NGGLGQAYRA	YQNYIKKNGE	EKLLPGLDLN	HKQLFFLNFA
QVWCGTYRPE	YAVNSIKTDV	HSPGNFRIG	TLQNSAEFSE
AFHCRKNSYM	NPEKKCRVW		

#### Biological Activity

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

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of 50mM MES, 100mM NaCl, 1mM ZnCl<sub>2</sub>, 10% Glycerol (pH 6.5). Normally 8% trehalose is added as protectant before lyophilization.

#### Endotoxin Level

<1 EU/ $\mu$ g, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/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 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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