

MME Protein, Human (HEK293)

Cat. No.:	HY-P72876
Synonyms:	Neprilysin; Atriopeptidase; CALLA; NEP; SFE; CD10; MME; EPN
Species:	Human
Source:	HEK293
Accession:	P08473 (Y52-W750)
Gene ID:	4311
Molecular Weight:	80-100 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	DLAGGQHLNG	INTLGENIAD
NGGLGQAYRA	YQNYIKKNGE	EKLLPGLDLN	HKQLFFLNFA
QVWCGTYRPE	YAVNSIKTDV	HSPGNFRIG	TLQNSAEFSE
AFHCRKNSYM	NPEKKCRVW		

Biological Activity Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp)-OH. The specific activity is > 1500 pmole/min/μg.

Appearance Solution

Formulation Supplied as a 0.22 μm filtered solution in 50 mM MES, 100 mM NaCl, 10% glycerol, pH 6.5.

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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