

MME Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72878
Synonyms:	Neprilysin; Atriopeptidase; CALLA; NEP; SFE; CD10; MME; EPN
Species:	Mouse
Source:	HEK293
Accession:	Q61391/NP_032630.2 (Y52-W750)
Gene ID:	17380
Molecular Weight:	82-110 kDa (glycosylation)

PROPERTIES

AA Sequence

YDDGICKSSD	CIKSAARLIQ	NMDASVEPCT	DDFFKYACGGW
LKRNVIPETS	SRYSNFDILR	DELEVILKDV	LQEPKTEDIV
AVQKAKTLYR	SCINESAIDS	RGGQPLLKLL	PDIYGWPPVAS
DNWDQTYGTS	WTAEKSLAQL	NSKYGKKVLI	NFFVGTDDKN
STQHIHFHDQ	PRLGLPSRDY	YEECTGIYKEA	CTAYVDFMIS
VARLIRQEQS	LPIDENQLSL	EMNKVMELEK	EIANATTKPE
DRNDPMLLYN	KMTLAKLQNN	FSLEVNGKSF	SWSNFTNEIM
STVNINIQNE	EEVVVYAPEY	LTKLKPILTK	YSPRDLQNLN
SWRFIMDLVS	SLSRNYKESR	NAFRKALYGT	TSETATWRRC
ANYVNGNMEN	AVGRLYVEAA	FAGESKHVVE	DLIAQIREVF
IQTLLDGLTWM	DAETKKKAAE	KALAIKERIG	YPDDIISNEN
KLNNEYLELN	YREDEYFENI	IQNLKFSQSK	QLKKLREKVD
KDEWISGAAV	VNAFYSSGRN	QIVFPAGILQ	PPFFSAQQSN
SLNYGGIGMV	IGHEITHGFD	DNGRNFNKDG	DLVDWWTQQS
ANNFKDQSQC	MVYQYGNFSW	DLAGGQHLLNG	INTLGENIAD
NGGIGQAYRA	YQNYVKKNGE	EKLLPGLDLN	HKQLFFLNFA
QVWCGTYRPE	YAVNSIKTDV	HSPGNFRIG	TLQNSAEFAD
AFHCRKNSYM	NPERKCRVW		

Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp) -OH. The specific activity is >3000 pmoles/min/μg.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.2μm filtered solution in PBS (pH 7.4) or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	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 Protein exhibits a thermolysin-like specificity, primarily acting on polypeptides of up to 30 amino acids. It plays a crucial role in the degradation of opioid peptides, including Met- and Leu-enkephalins, by cleaving a Gly-Phe bond. Additionally, MME catalyzes the cleavage of bradykinin, substance P, and neurotensin peptides, as well as angiotensin-1, angiotensin-2, and angiotensin 1-9. It is involved in the degradation of the atrial natriuretic factor (ANF) and demonstrates UV-inducible elastase activity towards skin preelastic and elastic fibers.

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

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