

MME Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71757
Synonyms:	Atriopeptidase; CALLA; CD10; CD10 antigen; Common acute lymphocytic leukemia antigen
Species:	Human
Source:	P. pastoris
Accession:	P08473 (Y52-W750)
Gene ID:	4311
Molecular Weight:	Approximately 81.8 kDa

PROPERTIES

AA Sequence

YDDGICKSSD	CIKSAARLIQ	NMDATTEPCT	DDFFKYACGGW
LKRNVIPETS	SRYGNFDILR	DELEVVLKDV	LQEPKTEDIV
AVQKAKALYR	SCINESAIDS	RGGEPLLKLL	PDIYGWPVAT
ENWEQKYGAS	WTAEKAI AQL	NSKYGKKVLI	NLFVGTDDKN
SVNHVIHIDQ	PRLGLPSRDY	YEECTGIYKEA	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	YKEDYFENI	IQNLKFSQSK	QLKKLREKVD
KDEWISGA AV	VNAFYSSGRN	QIVFPAGILQ	PPFFSAQQSN
SLNYGGIGMV	IGHEITHGFD	DNGRNFNKDG	DLVDWWTQQS
ASNFKEQSQC	MVYQYGNFSW	DLAGGQH LNG	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 Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

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 ddH₂O.

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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