Neurolysin Protein, Human (His)

Cat. No.:	HY-P75938
Synonyms:	Neurolysin, mitochondrial; Microsomal endopeptidase; MEP; NLN; AGTBP; KIAA1226
Species:	Human
Source:	E. coli
Accession:	Q9BYT8 (S38-P704)
Gene ID:	57486
Molecular Weight:	Approximately 67 kDa

PROPERTIES

AA Sequence	S S Y T V A G R N V L R W D L S P E Q I K T R T E E L I V Q T K Q V Y D A V G M L G I E E V T Y E N C L Q A L A D V E V K Y I V E R T M L D F P Q H V S S D K E V R A A S T E A D K R L S R F D I E M S M R G D I F E R I V H L Q E T C D L G K I K P E A R R Y L E K S I K M G K R N G L H L P E Q V Q N E I K S M K K R M S E L C I D F N K N L N E D D T F L V F S K A E L G A L P D D F I D S L E K T D D D K Y K I T L K Y P H Y F P V M K K C C I P E T R R R M E M A F N T R C K E E N T I I L Q Q L L P L R T K V A K L L G Y S T H A D F V L E M N T A K S T S R V T A F L D D L S Q K L K P L G E A E R E F I L N L K K K E C K D R G F E Y D G K I N A W D L Y Y Y M T Q T E E L K Y S I D Q E F L K E Y F P I E V V T E G L L N T Y Q E L L G L S F E Q M T D A H V W N K S V T L Y T V K D K A T G E V L G Q F Y L D L Y P R E G K Y N H A A C F G L Q P G C L L P D G S R M M A V A A L V V N F S Q P V A G R P S L L R H D E V R T Y F H E F G H V M H Q I C A Q T D F A R F S G T N V E T D F V E V P S Q M L E N W V W D V D S L R R L S K H Y K D G S P I A D D L L E K L V A S R L V N T G L L T L R Q I V L S K V D Q S L H T N T S L D A A S E Y A K Y C S E I L G V A A T P G T N M P A T F G H L A G G Y D G Q Y Y G Y L W S E V F S M D M F Y S C F K K E G I M N P E V G M K Y R N L I L K P G G S L D G M D M L H N F L K R E P N Q K A F L M S R G L H A P
Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate (7-methoxycoumarin-4-yl) acetyl Pro-Leu-Gly-Pro-D-Lys(2,4-dinitrophenyl)-OH and the specific activity is > 100 pmol/min/μg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Neurolysin protein serves as a versatile enzyme with the ability to hydrolyze various oligopeptides, including neurotensin, bradykinin, and dynorphin A. Beyond its role in oligopeptide metabolism, Neurolysin assumes a regulatory function in the cannabinoid signaling pathway. It accomplishes this by facilitating the degradation of hemopressin, an antagonist peptide that interacts with the cannabinoid receptor CNR1. This dual role positions Neurolysin as a key player in both the enzymatic breakdown of biologically active peptides and the modulation of cannabinoid receptor signaling through the regulation of hemopressin levels.

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