

NAALADL1 Protein, Human (HEK293, His)

Cat. No.:	HY-P77450
Synonyms:	Aminopeptidase NAALADL1; I100; Ileal dipeptidylpeptidase; NAALADASEL; NAALADL
Species:	Human
Source:	HEK293
Accession:	Q9UQQ1-1 (P29-L740)
Gene ID:	10004
Molecular Weight:	Approximately 95 kDa due to the glycosylation

PROPERTIES

AA Sequence

P K K A N S L A P Q	D L D L E I L E T V	M G Q L D A H R I R	E N L R E L S R E P
H L A S S P R D E D	L V Q L L L Q R W K	D P E S G L D S A E	A S T Y E V L L S F
P S Q E Q P N V V D	I V G P T G G I I H	S C H R T E E N V T	G E Q G G P D V V Q
P Y A A Y A P S G T	P Q G L L V Y A N R	G A E E D F K E L Q	T Q G I K L E G T I
A L T R Y G G V G R	G A K A V N A A K H	G V A G V L V Y T D	P A D I N D G L S S
P D E T F P N S W Y	L P P S G V E R G S	Y Y E Y F G D P L T	P Y L P A V P S S F
R V D L A N V S G F	P P I P T Q P I G F	Q D A R D L L C N L	N G T L A P A T W Q
G A L G C H Y R L G	P G F R P D G D F P	A D S Q V N V S V Y	N R L E L R N S S N
V L G I I R G A V E	P D R Y V L Y G N H	R D S W V H G A V D	P S S G T A V L L E
L S R V L G T L L K	K G T W R P R R S I	V F A S W G A E E F	G L I G S T E F T E
E F F N K L Q E R T	V A Y I N V D I S V	F A N A T L R V Q G	T P P V Q S V V F S
A T K E I R S P G P	G D L S I Y D N W I	R Y F N R S S P V Y	G L V P S L G S L G
A G S D Y A P F V H	F L G I S S M D I A	Y T Y D R S K T S A	R I Y P T Y H T A F
D T F D Y V D K F L	D P G F S S H Q A V	A R T A G S V I L R	L S D S F F L P L K
V S D Y S E T L R S	F L Q A A Q Q D L G	A L L E Q H S I S L	G P L V T A V E K F
E A E A A A L G Q R	I S T L Q K G S P D	P L Q V R M L N D Q	L M L L E R T F L N
P R A F P E E R Y Y	S H V L W A P R T G	S V V T F P G L S N	A C S R A R D T A S
G S E A W A E V Q R	Q L S I V V T A L E	G A A A T L R P V A	D L

Biological Activity

Measured by its binding ability in a functional ELISA. Immobilized Human NAALADL1, at 2 µg/mL (100µL/well) can bind Anti-NAALADL1 antibody. The ED₅₀ for this effect is 0.1597 µg/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, 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 ddH₂O. 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

NAALADL1 is an aminopeptidase exhibiting a broad substrate specificity, although it demonstrates lower activity with substrates containing Asp or Glu in the P2' position, or Pro in the P3' position. Notably, it lacks activity with substrates featuring both Pro in the P3' position and Asp or Glu in the P2' position. In addition, NAALADL1 does not possess carboxypeptidase activity and is devoid of dipeptidyl-peptidase IV type activity. These enzymatic characteristics emphasize the nuanced substrate preferences and limitations of NAALADL1, shedding light on its role as an aminopeptidase with specific substrate interactions and catalytic properties.

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

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