

NAALADL1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77098
Synonyms:	Aminopeptidase NAALADL1; Gm964; Naaladase1
Species:	Mouse
Source:	HEK293
Accession:	Q7M758 (P29-L745)
Gene ID:	381204
Molecular Weight:	Approximately 95-125 kDa

PROPERTIES

AA Sequence

PKATSPLTSS	TSDSQDLDLA	ILDSVMGQLD	ASRIRENLRE
LSKEPHVATS	PRDEALVQLL	LGRWKDTATG	LDSAKTYEYR
VLLSFPNAEQ	PNSVEVVGN	GTTFHSTFPF	EKNLTGEQAG
PNVLQPYAAY	APPGTPKGLL	VYANQGSEED	FKELETQGIN
LEGTIALTRY	GGVGRGAKAI	NAAKHGVVGV	LVYTDPGDIN
DGKSLPNETF	PNSWRLPPSG	VERGSYYEYF	GDPLTPYLP
HPSSFRLDPH	NTSGFPPIPT	QPIGFEDARD	LLCNLTGTSA
PAFWQGALGC	EYKLGPGFEP	NGSFPAGSEV	KVSVHNRLEL
RTSSNVLGI	QGAVEPDRYV	IYGNHRDSWV	HGAVDPSSGT
AVLLEISRVL	GTL LKKGTWR	PRRSII FASW	GAEEFGLIGS
TEFTEEF LSK	LQERTVAYIN	VDISVFSNAT	LRAQGT PPVQ
SVIFSATKEI	SAPGSSGLSI	YDNWIRYTNR	TSPVYGLVPS
LGT L GAGSDY	AAFVHFLGIT	SMDLAYTYDR	SKTSARIYPT
YHTAFDTFDY	VEKFLDPGFS	SHQAVARTAG	SVLLRLSDSL
FLPLNVSDYS	ETLQSFLQAA	QEALGTQLEK	QNISLGPLVT
AVANFKAAAA	SLGEHILTLQ	KSSPDPLQVR	MVNDQLMLLE
RAFLNPRAFP	EERHYSVHLW	APNTASVDTF	PGLANAYAKA
QEINSGSEAW	AEVQRQLSIV	VTALEGAAAT	LVPVADL

Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Mouse NAALADL1, at 2µg/mL (100µL/well) can bind Anti-NAALADL1 antibody. The ED₅₀ for this effect is 0.2066 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 protein is an aminopeptidase enzyme that exhibits a broad substrate specificity. It can efficiently hydrolyze a wide range of substrates, except for those that have Asp or Glu in the P2' position, or Pro in the P3' position, where its activity is lower. Additionally, NAALADL1 lacks enzymatic activity when substrates contain both Pro in the P3' position and Asp or Glu in the P2' position. Notably, it does not possess carboxypeptidase activity or dipeptidyl-peptidase IV type activity.

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

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