

LSAMP Protein, Human (HEK293, His)

Cat. No.:	HY-P70414
Synonyms:	rHuLimbic system-associated membrane protein/LSAMP, His ; Limbic system-associated membrane protein; LSAMP; IgLON family member 3
Species:	Human
Source:	HEK293
Accession:	Q13449 (V29-N315)
Gene ID:	4045
Molecular Weight:	45-65 kDa

PROPERTIES

AA Sequence	<pre> V R S V D F N R G T D N I T V R Q G D T A I L R C V V E D K N S K V A W L N R S G I I F A G H D K W S L D P R V E L E K R H S L E Y S L R I Q K V D V Y D E G S Y T C S V Q T Q H E P K T S Q V Y L I V Q V P P K I S N I S S D V T V N E G S N V T L V C M A N G R P E P V I T W R H L T P T G R E F E G E E E Y L E I L G I T R E Q S G K Y E C K A A N E V S S A D V K Q V K V T V N Y P P T I T E S K S N E A T T G R Q A S L K C E A S A V P A P D F E W Y R D D T R I N S A N G L E I K S T E G Q S S L T V T N V T E E H Y G N Y T C V A A N K L G V T N A S L V L F R P G S V R G I N </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 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	LSAMP Protein serves as a crucial mediator in orchestrating selective neuronal growth and precise axon targeting, playing a pivotal role in guiding developing axons and facilitating the remodeling of mature circuits within the limbic system. The protein's significance extends to its essential role in ensuring the normal growth of the hippocampal mossy fiber projection, thereby contributing to the intricate architecture of neural pathways. Through its involvement in these processes, LSAMP
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emerges as a key player in the intricate orchestration of neural development, impacting both the establishment of neuronal connections during development and the adaptive changes within mature circuits in the limbic system.

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

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