

Synaptotagmin VI Protein, Human (N-His)

Cat. No.:	HY-P74533A
Synonyms:	Synaptotagmin-6; Synaptotagmin VI; SytVI; SYT6
Species:	Human
Source:	E. coli
Accession:	NP_995320 (V275-L425)
Gene ID:	148281
Molecular Weight:	Approximately 19 kDa

PROPERTIES

AA Sequence	<p>V D L G E I M F S L C Y L P T A G R L T L T V I K C R N L K A M D I T G Y S D P</p> <p>Y V K V S L L C D G R R L K K K K T T I K K N T L N P V Y N E A I I F D I P P E</p> <p>N M D Q V S L L I S V M D Y D R V G H N E I I G V C R V G I T A E G L G R D H W</p> <p>N E M L A Y P R K P I A H W H S L V E V K K S F K E G N P R L</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 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 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	<p>Synaptotagmin VI protein, a member of the synaptotagmin family, possesses a common domain structure comprising a transmembrane domain and a cytoplasmic region consisting of 2 C2 domains. These proteins play a vital role in calcium-dependent exocytosis of synaptic vesicles. Specifically, synaptotagmin VI is a crucial component of the secretory machinery involved in acrosomal exocytosis. This gene exhibits alternatively spliced transcript variants. Furthermore, it demonstrates biased expression in specific tissues, including the brain (RPKM 2.6), kidney (RPKM 0.8), and 6 other tissues.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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