

SYP/Synaptophysin Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702462
Synonyms:	Synaptophysin; Major synaptic vesicle protein p38
Species:	Rat
Source:	E. coli Cell-free
Accession:	P07825 (M1-M307)
Gene ID:	24804
Molecular Weight:	34.8 kDa

PROPERTIES

AA Sequence	<pre> MDVVNQLVAG GQFRVVKEPL GFVKVLQWVF AIFAFATCGS YTGELRLSVE CANKTESALN IEVEFEY PFR LHQVYFDAPS CVKGGTTKIF LVGDYSSSAE FFVTVAVFAF LYSMGALATY IFLQNKYREN NKGPMMDFLA TAVFAFMWLV SSSAWAKGLS DVKMATDPEN IIKEMPMCRQ TGNTCKELRD PVT SGLNTSV VFGFLNLVLW VGNLWVVFKE TGWAAPFMRA PPGAPEKQPA PGDAYGDAGY GQGGGGYGYPQ DSYGPGGGYQ PDYGQPASGG GGYGPQGDYG QQGYGQQGAP TSFSNQM </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	SYP/Synaptophysin Protein appears to play a dual role, potentially participating in structural functions by organizing other membrane components or facilitating the targeting of vesicles to the plasma membrane. Its involvement in the regulation of both short-term and long-term synaptic plasticity underscores its significance in shaping synaptic activity. Existing as a
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homohexamer or homotetramer, SYP interacts with SRCIN1 and VAMP2, the latter interaction being regulated by VAPM2 and inhibited by the interaction of VAPM2 with SEPT8. These intricate interactions highlight SYP's role in the molecular orchestration of synaptic processes, emphasizing its potential impact on synaptic structure and function.

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

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