SYNGR1/Synaptogyrin-1 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702460
Synonyms:	Synaptogyrin-1; p29
Species:	Rat
Source:	E. coli Cell-free
Accession:	Q62876 (M1-Y234)
Gene ID:	29205
Molecular Weight:	31.7 kDa

PROPERTIES

AA Sequence	M E G G A Y G A G K A G G A F D P Y T L V R Q P H T I L R V V S W V F S I V V F G S I V N E G Y L N N P E E E E E E F C I Y N R N P N A C S Y G V T V G V L A F L T C L V Y L A L D V Y F P Q I S S V K D R K K A V L S D I G V S A F W A F F W F V G F C F L A N Q W Q V S K P K D N P L N E G T D A A R A A I A F S F F S I F T W A G Q A V L A F Q R Y Q I G A D S A L F S Q D Y M D P S Q D S S M P Y A P Y V E P S A G S D P T G M G G T Y Q H P A N A F D A E P Q G Y Q S Q G Y
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	SYNGR1, also known as Synaptogyrin-1 protein, emerges as a potential player in regulated exocytosis, suggesting its involvement in the controlled release of neurotransmitters. Notably, SYNGR1 is implicated in modulating the localization of synaptophysin/SYP into synaptic-like microvesicles, hinting at its role in the formation and maturation of these vesicles. The multifaceted role of SYNGR1 extends to the regulation of both short-term and long-term synaptic plasticity, underscoring its significance in shaping the dynamic aspects of synaptic function. The intricate molecular mechanisms underlying SYNGR1's

participation in these processes present an intriguing area for further investigation to comprehensively understand its contributions to cellular events related to exocytosis and synaptic plasticity.

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