



Recombinant Dog Synapsin-1 (SYN1)

Product Code	CSB-EP023002DO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O62732
Product Type	Recombinant Protein
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Purity	≥85% (SDS-PAGE)
Sequence	AHSGMGKVKV DNQHDFQDIA SVVALTKTYA TAEPFIDAKY DVRVQKIGQN YKAYMRTSVS GNWKTNTGSA MLEQIAMSDR YKLWVDTCS E IFGGLDICA V EALHGKDGRD HIIIEVVGSSM PLIGDHQDEY KQLLIVELV V N KMAQALPRQQ QRDASPGRGS HSQTPSPGAL PLGRQTSQQP SGPPAQQRPP PQGGPPQPGP GPQRQGPP LQ QRPPPQGGQHQH LSGLGPPAGS PLPQRLPSPT SAPQQPV SQA QPLSQAQGRQ SRPVAGGPGA PPAARPPASP SPQRQAGPPQ ATRQTSVSGQ APPKASGAPP SGQQRQGPPQ KPPGPAGPTR QASQAGPMPR TGPPTTQQPR PSGPGPAGRP AKPQLAQKPS QDVPSPATAG GPPHPQLNKS QSLTNAFNLP EPAPPRPSLS QDEVK
Source	E.coli
Target Names	SYN1
Protein Names	Recommended name: Synapsin-1 Alternative name(s): Synapsin I
Expression Region	1-415
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.