

Alpha-synuclein (SNCA) Recombinant Protein | SNCA recombinant protein

Recombinant Pig Alpha-synuclein (SNCA)

CATALOG #
AAA244045

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Alpha-synuclein (SNCA); Recombinant Pig Alpha-synuclein (SNCA); SNCA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process) If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyop
Sequence Positions	1-140aa; Full Length Protein
Sequence	MDVFMKGLSK AKEGVVAAAE KTKQGVAAEA GKTKEGVLYV GSKTKEGVVH GVTTVAEKTQ EQVTNVGEAV VTGVTAVAQK TVEGAGSIAA ATGFGKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA
Species	Sus scrofa (Pig)
Tag	Tag-Free
Function	Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores. Mechanistically, acts by increasing local Ca ²⁺ release from microdomains which is essential for the enhancement of ATP-induced exocytosis. Acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. This chaperone activity is important to sustain normal SNARE-complex assembly during aging. Plays also a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity.
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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Product Categories/Family for SNCA recombinant protein	Neuroscience
References	"Isolation of the porcine alpha-synuclein gene (SNCA) from cerebellum."Larsen K., Bendixen C.Submitted (MAY-2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	80861405
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NCBI GeneID	641350
NCBI Accession #	NP_001032222.1
NCBI GenBank Nucleotide #	NM_001037145.1
UniProt Accession #	Q3I5G7
Molecular Weight	14,520 Da
NCBI Official Full Name	alpha-synuclein
NCBI Official Symbol	SNCA
NCBI Protein Information	alpha-synuclein; alpha synuclein
UniProt Protein Name	Alpha-synuclein
UniProt Gene Name	SNCA
UniProt Entry Name	SYUA_PIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/snca-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/244045>