Datasheet for ABIN7505351

SNCA Protein (AA 1-140) (His tag)

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Overview

Quantity:	100 µg
Target:	SNCA
Protein Characteristics:	AA 1-140
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SNCA protein is labelled with His tag.

Product Details

Sequence:	Met1-Ala140
Characteristics:	Recombinant Mouse alpha-Synuclein is produced by our E.coli expression system and the target gene encoding Met1-Ala140 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	<1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	SNCA
Alternative Name:	alpha-Synuclein (SNCA Products)
Background:	Abbreviation: α-Synuclein,SNCA Target Synonym: Alpha-synuclein,Non-A beta component of AD amyloid,Non-A4 component of amyloid precursor,NACP,Snca

Target Details

	Background: Alpha-synuclein (Snca) belongs to a family of proteins including a-, b-, and g-synucleins. Alpha-synuclein has been found to be implicated in the pathophysiology of many neurodegenerative diseases, including Parkinson's disease (PD) and Alzheimer's disease. Manyneurodegenerative diseases has shown that alpha-synuclein accumulates in dystrophic neurites and in Lewy bodies. The function of alpha-synuclein is closely correlated with its three-dimensional structure, especially for proteins important in the pathogenesis of neurodegenerative diseases. Alpha-synuclein is a dynamic molecule whose secondary structure depends on the environment. For example, it has an unfolded random coil structure in aqueous solution, forms a-helical structure upon binding to acidic phospholipid vesicles, and forms insoluble fibrils with a high b-sheet content that resemble the filaments found in Lewy bodies. Also, alpha-synuclein was known to associate with 14-3-3 proteins including protein kinase C, BAD, and extracellular regulated kinase, and overexpression of alpha-synuclein could contribute to cell death in neurodegenerative diseases.
Molecular Weight:	Calculated MW: 15.9 kDa Observed MW: 18 kDa
UniProt:	O55042
Pathways:	Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Platelet-derived growth Factor Receptor Signaling, Negative Regulation of Transporter Activity, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from a 0.2 um filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Handling

Expiry Date:	12 months

