

Product datasheet for **TP727325**

Snca Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse α -Synuclein/SNCA (N-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Met1-Ala140
Tag:	N-His
Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	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.
Stability:	12 months from date of despatch
Locus ID:	20617
UniProt ID:	O55042
Summary:	<p>Alpha-synuclein (Snca) belongs to a family of proteins including α-, β-, and γ-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. Many neurodegenerative 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 α-helical structure upon binding to acidic phospholipid vesicles, and forms insoluble fibrils with a high β-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.</p>



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