

32-8593: Recombinant Mouse α -Synuclein/SNCA (N-6His)

Gene : Snca
Gene ID : 20617
Uniprot ID : O55042

Description

Source: E.coli.
MW :15.9kD.

Recombinant Mouse α -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. 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.

Product Info

Amount : 10 μ g / 50 μ g
Content : Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : MNHKVHHHHHHMDVFMKGLSKAKEGVVAAAEKTKQGVAAAGKTKEGVLYVGSKTKEGVVHGVTTVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGNIAAATGFVKKDKMGKGEEGYPQEGILEDMPVDPGSEAYEMPSEEGYQDYEPEA

Application Note

Endotoxin : Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.