

## 32-8593: Recombinant Mouse $\alpha$ -Synuclein/SNCA (N-6His)

**Gene :** Snca  
**Gene ID :** 20617  
**Uniprot ID :** O55042

### Description

Source: E.coli.  
MW :15.9kD.

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. Alpha-synuclein (Snca) belongs to a family of proteins including  $\alpha$ -,  $\beta$ -, and  $\gamma$ -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  $\alpha$ -helical structure upon binding to acidic phospholipid vesicles, and forms insoluble fibrils with a high  $\beta$ -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  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ 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 :** MNHKVHHHHHMDVFMKGLSKAKEGVVAAAEKTKQGVAAAGKTKEGVLYVGSKTKEGVVHGVTTVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGNIAAATGFVKKQDMKGKEEGYPQEGILEDMPVDPGSEAYEMPSEEGYQDYEPEA

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.