

# Product information



## $\alpha$ -Synuclein ,1-140aa

Human, Recombinant, *E.coli*

Cat. No. IBSNA2001

Size: 1 mg  
Size: 100 ug

**Synonyms:** NACP

**NCBI Accession No.:** NP\_000336

**Description:**  $\alpha$ -Synuclein (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils.  $\alpha$ -synuclein has been suggested to be implicated in the pathogenesis of Parkinson's disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells. Moreover, recent studies have shown that  $\alpha$ -synuclein has chaperone activity and that this activity is lost upon removing its C-terminal acidic tail (amino acids 96-140).

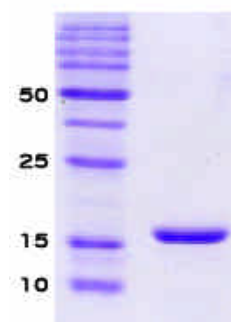
**Form:** Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 0.1 M NaCl, 1mM MgCl<sub>2</sub>

**Molecular Weight:** 14.4 kDa (140 aa)  
(Real molecular weight on SDS-PAGE will be shift up)

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1 ug of protein (determined by LAL method)



14% SDS-PAGE (3ug)

### Sequences of amino acids:

MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTG EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA  
ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA

### General references:

Jakes, R., *et al.* (1994) *FEBS lett.* 345, 27-32

Ueda, K., *et al.* (1993) *Proc. Natl. Acad. Sci. USA* 90, 11282-11286

Kim, J. (1997) *Molecules and Cells* 7, 78-83

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Paik, S. R., *et al.* (1997) *Arch. Biochem. Biophys.* 344, 325-334.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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