



Product Datasheet

Product Name	Alpha Synuclein Human Recombinant
Cata No	CB501014
Source	<i>Escherichia Coli.</i>
Synonyms	Alpha-synuclein, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, NACP, PD1, PARK1, PARK4, MGC110988, α -Synuclein, SNCA.

Description

α -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. α -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 α -synuclein has chaperone activity and that this activity is lost upon removing its C-terminal acidic tail (amino acids 96-140).

α -Synuclein Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 14,460 Dalton. The Recombinant Human α -Synuclein is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl and 1mM MgCl₂.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

Sequence

MDVFMKGLSK/ AKEGVVAAAE/ KTKQGVAAEA/
GKTKEGVLYV/
GSKTKEGVVH/GVATVAEKT/
EQVTNVGGAV/VTGVTAVAQK/TVEGAGSIAA/
ATGFVKKDQL/
GKNEEGAPQE/
GILEDMPVDP/DNEAYEMPSE/EGYQDYEPEA.

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