

Synonym

SNCA,NACP,PARK1,alpha-Synuclein

Source

Human Alpha-Synuclein (E46K), Tag Free(ALN-H5117) is expressed from E. coli cells. It contains AA Met 1 - Ala 140 (Accession # [P37840-1](#) (E46K)).

Predicted N-terminus: Met 1

Molecular Characterization



This protein carries no "tag".

The protein has a calculated MW of 14.5 kDa. The protein migrates as 16 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Supplied as 0.2 µm filtered solution in 50mM HEPES, 100mM NaCl, pH8.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

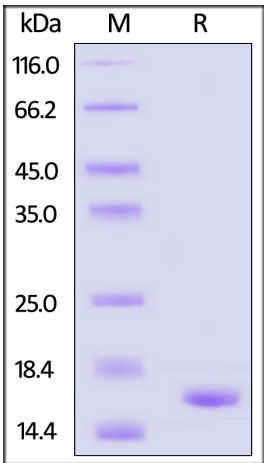
Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

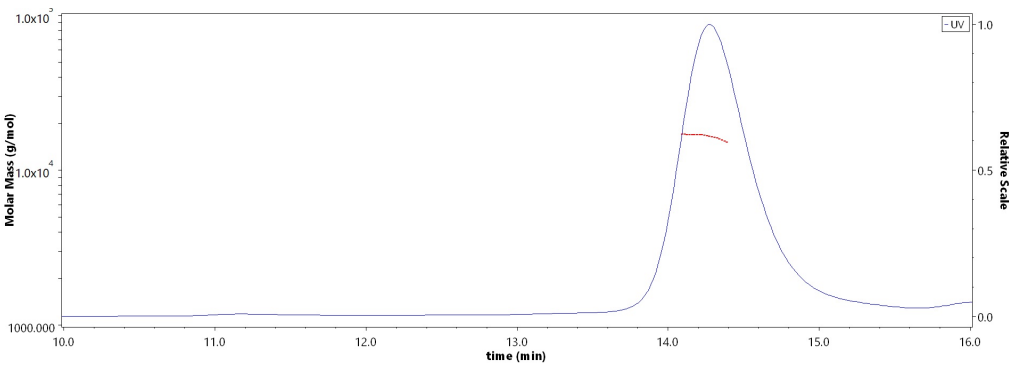
SDS-PAGE



Human Alpha-Synuclein (E46K), Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

SEC-MALS



The purity of Human Alpha-Synuclein (E46K), Tag Free (Cat. No. ALN-H5117) is more than 95% and the molecular weight of this protein is around 13-20 kDa verified by SEC-MALS.

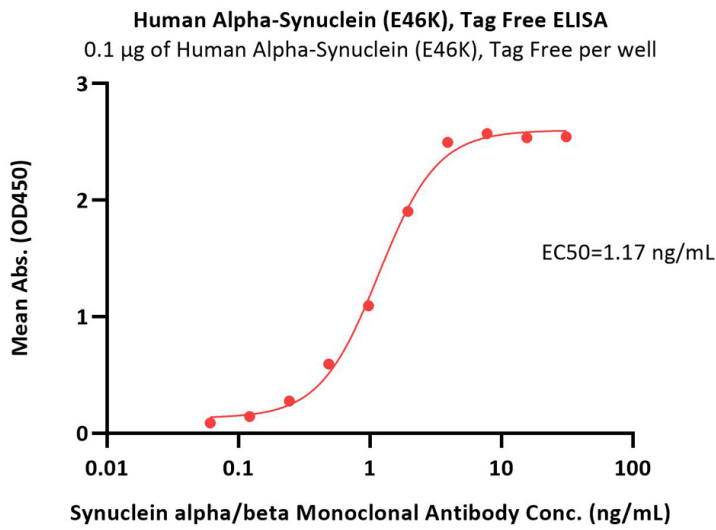
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Human Alpha-Synuclein (E46K) Protein, Tag Free (MALS verified)

Catalog # ALN-H5117



Immobilized Human Alpha-Synuclein (E46K), Tag Free (Cat. No. ALN-H5117) at 1 µg/mL (100 µL/well) can bind Synuclein alpha/beta Monoclonal Antibody with a linear range of 0.1-4 ng/mL (QC tested).

Background

Alpha-synuclein is a neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. It acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. Abnormalities in alpha-synuclein are implicated in the pathogenesis of Parkinson's disease (PD). Alpha-synuclein is present in Lewy-bodies, the neuropathological hallmark of PD, and the protein and its aggregation have been widely linked to neurotoxic pathways that ultimately lead to neurodegeneration.

