



Product name

Human SYUA SIL-protein

Catalog number

SY865402

Uniprot ID P37840

Product description

Human alpha synuclein (SYUA) is a presynaptic neuronal protein linked genetically and neuropathologically to Parkinson's disease. Labelled SYUA is a recombinant protein, stable isotope labelled (SIL), designed for use as an internal standard for quantitative analysis of SYUA by mass spectrometry (MS).

Synonyms: Non-A beta component of AD amyloid

Protein sequence

MDVFMKGLSKAKEGVVAAAEKTKQGVAEAAGKTKEGVLYVGSKTKEGVVHGVATVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGSIAA ATGFVKKDQLGKNEEGAPQEGILEDMPVDPDNEAYEMPSEEGYQDYEPEA

Key features

>95% Purity

as determined by SDS-PAGE

Labelling

Lys-13C₆,15N₂

Isotopic incorporation >99%

as determined by LC-MS/MS analysis of digested SIL-protein

Other features

Predicted MW	14.5 kDa
Expression System	E.coli
Purification Tag	No tag
Protein content	Determined by BCA assay with BSA as standard
Formulation	Lyophilized from 50 mM Tris ; 100 mM NaCl pH=8 buffer

Product preparation

For product preparation we recommend the following steps:

- 1. Briefly centrifuge the tube before opening
- 2. Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 μg/ml (e.g. 50 μl for 10 μg or 250 μl for 50 μg conditioning)
- 3. Vortex gently to insure complete dissolution
- 4. Wait 15 minutes at room temperature before proceeding further
- 5. Vortex gently again and centrifuge briefly

Product storage

The product is lyophilized and shipped at room temperature. Store at -80 °C upon receipt.

After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles





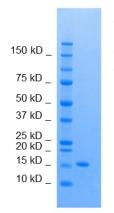
How to use our product



SIL proteins allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has potential positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information



SDS-PAGE gel analysis of SYUA protein in Reducing/Heated conditions (RH)
Stained with Coomassie blue.

References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363



The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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