

## Product description



**Product name** Human SYUB SIL-protein



**Catalog number** SY875286

**Uniprot ID** Q16143

Human beta synuclein (SYUB) is non-amyloid component of senile plaques found in Alzheimer disease.

Labelled SYUB is a recombinant protein, stable isotope labelled (SIL), designed for use as an internal standard for quantitative analysis of SYUB by mass spectrometry (MS).

## Protein sequence

MDVFMKGLSMAKEGVVAAAEEKTKQGVTEAAEKTKEGVLYVGSKTREGVVQGVASVAEKTKEQASHLGGAVFSGAGNIAAATGLVKREEFPTDLKPEEVAQEAEEPLIEPLMEPEGESYEDPPQEEYQYEPEA

## Product features and protocols

### Key features

- 1 Purity >95% as determined by SDS-PAGE
- 2 Labelling Uniform-<sup>15</sup>N
- 3 Isotopic incorporation >99% as determined by LC-MS/MS analysis of digested SIL-protein

### Other features

Predicted MW	14.3 kDa
Expression System	<i>E.coli</i>
Purification Tag	No tag
Protein content	Determined by BCA assay with BSA as standard
Formulation	Lyophilized from 20 mM Tris ; 100 mM NaCl buffer

Template009-datasheet protein-V01 SY875286\_V01

## 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.**

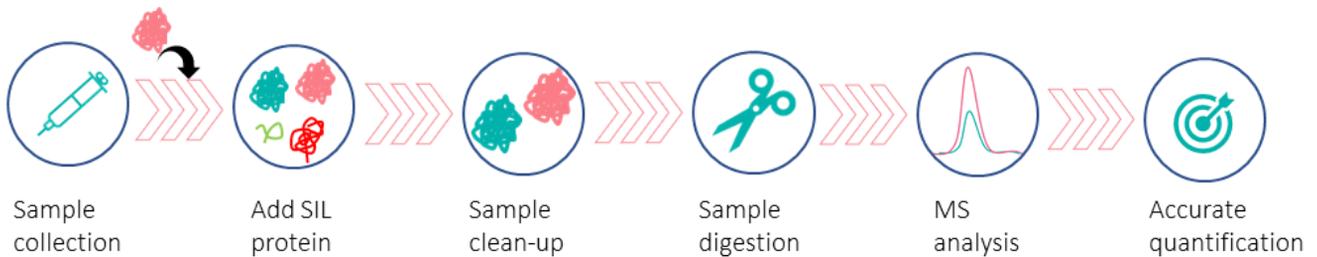
After reconstitution, the protein can be preserved at 4°C for a few weeks.

### Avoid multiple freeze-thaw cycles

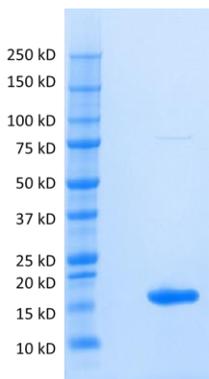
## How to use our product



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 SYUB 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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