

Stable Isotope Labelled Proteins - SIL-Proteins -

Allow robust and reliable
quantitative LC-MS workflows

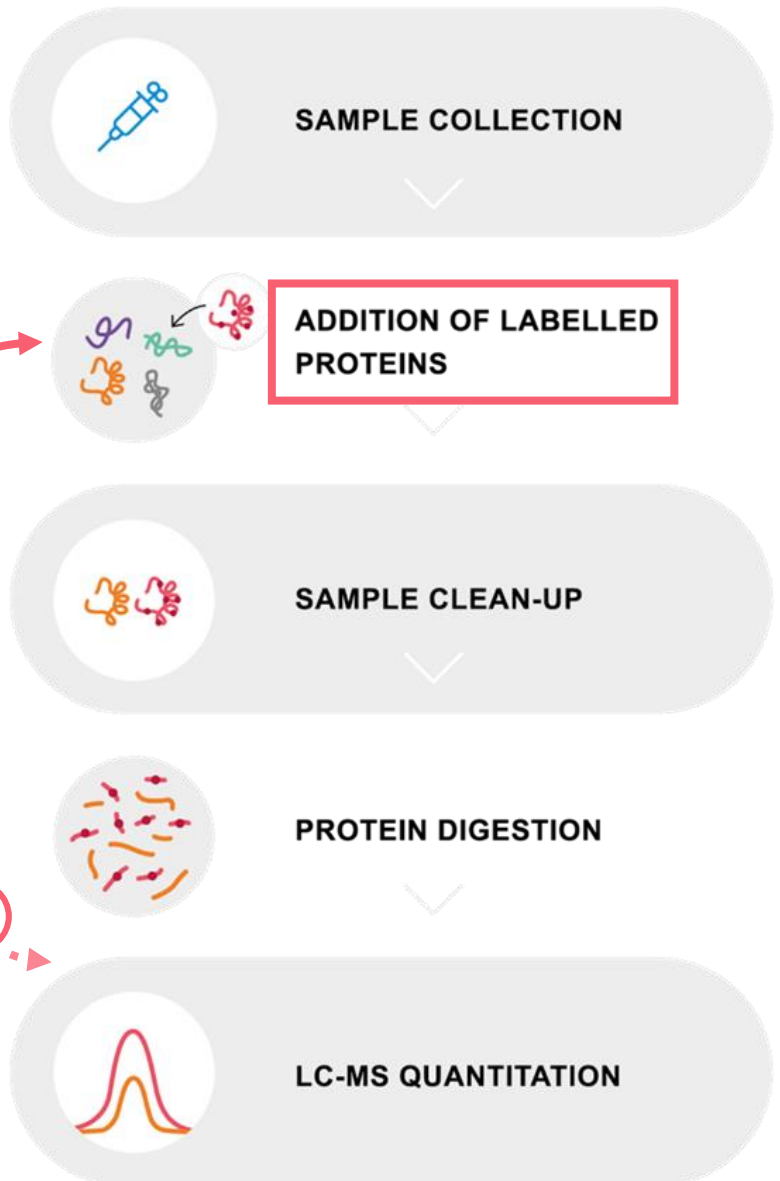
Improve reproducibility of a
quantitative LC-MS assay

Enhance accuracy of a
quantitative LC-MS assay

How do Stable Isotope Labelled Proteins work ?



- Full length recombinant proteins
- Identical to the protein of interest
- Labelled ^{13}C , ^{15}N residues
- High isotopic incorporation
- Highly characterized
- Highly stable, Pure



Unlike the use of peptides, Promise's SIL proteins are processed along with the target analyte throughout the pre-analytical and LC-MS workflow.



“Promise 's SIL proteins reduce variations in quantification due to protein extraction or purification, adsorption, loss, digestion, proteolysis and analysis. ”

Promise's SIL proteins have been cited by Pharmaceutical companies e.g. Merck, Metrology Institutes e.g. NIST and in high impact factor journals i.e. Cell which clearly endorses their quality and purity for quantitative LC-MS work. More references on our website : <https://promise-proteomics.com/technology>

Improve your quantitative LC-MS assay with Stable Isotope Labelled Proteins *



Off the shelf products

Albumin - Labelled U15N
Alpha Feto Protein - Labelled (Arg,Lys) 13C15N
APO A1 - Labelled U15N & Unlabelled
APO E3 - Labelled U15N & Unlabelled
Carboxypeptidase B2 - Labelled (Arg,Lys) 13C15N
Choriogonadotropin - Labelled (Arg,Lys) 13C15N
Clusterin protein - Labelled (Arg,Lys) 13C15N
Cystatin C - Labelled U15N & Unlabelled
Erythropoietin - Labelled (Arg,Lys) 13C15N
Growth hormone 22 - Labelled (Arg, Lys) 13C15N & Labelled U15N & Unlabelled
KRAS G12C mutant - Labelled (Arg,Lys) 13C15N & Unlabelled
KRAS G12C mutant - Unlabelled
KRAS G12C/C118A mutant - Unlabelled
KRAS 2A - Labelled U15N & Unlabelled
NRAS - Labelled U15N & Unlabelled
NRAS - Unlabelled
KRAS 2B - Unlabelled
Neurofilament - Labelled (Arg,Lys) 13C15N
Neurofilament - Unlabelled
Procalcitonin - Labelled (Arg,Lys) 13C15N
Procalcitonin - Unlabelled
Synuclein alpha - Labelled (Lys) 13C15N & Unlabelled
Synuclein beta - Labelled U15N
Synuclein gamma - Labelled U15N
Tau 441 - Labelled (Arg,Lys) 13C15N & Unlabelled
Tau 352- Labelled U15N
Troponin I - Labelled U15N
Vitamin D binding Protein - Labelled (Arg, Lys) 13C15N

**If your protein of interest is not on the list, we provide tailor made protein upon request.*

How to use it ?

	Unlabelled Protein	Labelled Protein
Assessment of LC-MS parameters allowing to detect the protein	✓	X
Development of a LC-MS based detection method in the biological matrix	✓	X
Development of a LC-MS based quantification method in the biological matrix	✓	✓
Assessment of a titration curve	✓	✓
LC-MS quantification method validation	✓	✓
LC-MS quantitative analyses	X	✓