

Discovery proteomics for deep coverage and high throughput.

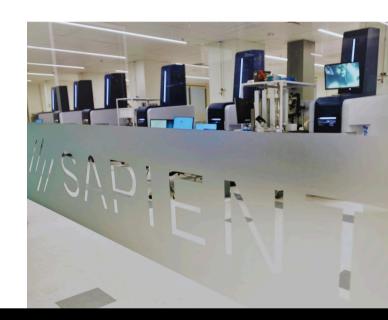
Sapient is a biomarker discovery organization providing **high throughput discovery proteomics services to measure thousands of proteins** in blood and tissue.

Leveraging state-of-the-art mass spectrometry, our methods achieve high analytical specificity while optimizing for protein coverage and throughput to best suit your bioanalytical needs.

Mass spectrometry **measure** of proteins and proteoforms.

Our mass spectrometry approach annotates proteins and post-translational modifications (PTMs) via direct peptide sequencing. **Peptide-level information** enables precise protein identification, and **capture of PTMs** allows for more in-depth analysis of protein function and regulation.

The additional value is that Sapient's discovery proteomics services are scalable. **Choose the coverage depth and throughput** that aligns with your specific study objectives.



Our approaches

Sapient /HT/ Discovery

Captures **1,800+** proteins and PTMs in plasma and **5,000+** in cells. The fastest throughput for **large, population-scale studies** and cell-based screening.

Sapient /Core/ Discovery

Measures **4,000+** proteins and PTMs in plasma, across tens to 10,000+ samples. Optimized for **revealing biological insights from the proteome.**

Sapient /Deep/ Discovery

Assays 10,000+ proteins and PTMs in cells and tissue. Ideal for cell and tissue-based studies when the deepest proteome coverage is required.

High-Throughput Profiling

with next-gen analytical technologies

Sapient's discovery proteomics method uses **nanoLC** coupled to trapped ion mobility mass spectrometry and **nanoparticle enrichment** to measure thousands of proteins across diverse bioanalytical pathways.



Scalable breadth & depth of coverage

of proteins across the blood and tissue proteome, including PTMs such as phosphorylation, acetylation, methylation & ubiquitination



Applicable to liquid & tissue matrices

including from preclinical and clinical systems

Measure of biologically important proteins including exosomal and membrane-bound proteins

Biocomputational Analysis

with multi-omics data integration

Our data science team can provide **integrative analysis of proteomics data** with other omics, preclinical, and clinical data to elucidate protein biomarkers and their involvement in processes underlying disease and drug response.



Expert handling of large-scale datasets

using advanced statistical & machine learning models

Identification of key protein biomarkers

with mapping of phenotype & genotype associations

The biomarkers we discover for sponsors can be applied to align:

Right Disease

- Target ID and validation
- · Disease mechanisms
- Early disease detection
- Disease progression

Right Patient

- Patient stratification
- Safety profiling
- Companion diagnostics
- Clinical trial enrichment

Right Therapy

- Dosing strategies
- Timing of treatments
- Target engagement
- Toxicology



Your partner to **discover** more and develop faster.

We are here to **extend multi-omics insights for your drug development programs beyond the genome,** to dynamic protein, metabolite, and lipid biomarkers that elucidate factors modulating health, disease, and drug response.



Ready to discover more?

Schedule a time to discuss your programs with our scientists.