

Precision Protein Assays and Panels

Precise, accurate, quantitative measure of specific proteins is critical to advancing drug development. Sapient offers targeted protein assays and custom panels to provide **customized measure of key proteins and their isoforms**, including protein variants and post-translational modifications (PTMs), using mass spectrometry – ***no antibody or binding agent needed.***

These protein measures leverage labeled peptides for **direct, absolute quantitation of proteins of interest** in virtually any sample matrix, from **plasma/serum to tissues, tumors, CSF, urine, saliva, eye fluids, cells, and media** for both human and preclinical studies.

Importantly, relative to traditional antibody-based protein measures including ligand binding assays, Sapient's mass spectrometry-based precision protein measures: **eliminate time-consuming steps** required to develop and optimize detection antibodies; **negate challenges of non-specific binding and cross-reactivity**; enable **measure of specific protein isoforms**, variants, and PTMs; enable measure **across sample matrices and species**; and can be highly multiplexed in custom panels.

Rapid turnaround of quantitative assays for nearly any sample type

Sapient's **off-the-shelf protein assays already encompass more than 12,000 proteins**. Any of these assays can undergo further qualification based on



✓ 12K+ protein assay menu

Off-the-shelf assays that can undergo further qualification

✓ Expertise to develop custom assays & panels

For difficult-to-measure proteins, protein variants, and PTMs

✓ No binding agent or antibody needed

Eliminates cross-reactivity and non-specific binding

✓ New assays deployed within 30 days

No time-consuming antibody development

✓ Sample type agnostic

Amenable to plasma/serum, tissues, tumors, CSF, urine, saliva, eye fluids, cells, and media

✓ Absolute quantification

For reproducible clinical insights

✓ Customize a panel

Select multiple proteins to measure simultaneously



your specific study, sample type, and regulatory requirements, including with **absolute quantification**. Sapient can also develop bespoke assays for difficult-to-measure proteins outside of our existing menu, including for non-canonical proteins. In addition to endogenous proteins of interest, our workflows also provide for **measure of viral proteins, bacterial proteins, and drug levels**.

Custom protein assays can typically be **developed within 30 days** including with multiplexing to accelerate your drug development and clinical studies.

Sapient's high throughput mass spectrometry systems allow us to deliver precision protein measures **at scale**, processing hundreds of samples per day and providing an ideal solution for detecting and monitoring protein targets and biomarkers in large-scale population studies and clinical trials.

Assays to advance precision drug development

Our precision protein assays and panels support the **rapid turnaround of precise data and robust insights** that inform and accelerate all phases of drug development – from **target identification to pharmacokinetic (PK) / pharmacodynamic (PD) / target engagement (TE) studies and clinical biomarker monitoring**.

Rely on our high-specificity protein measures to deliver reliable, rapid insights into targets, disease status and progression, and drug response – so you can **advance your study with confidence**.



Request an assay or build your panel of choice using our **Protein Assay Menu** at sapient.bio/protein-menu, or email discover@sapient.bio with your bespoke requirements for quoting.



SAPIENT

Discover more today.

+ sapient.bio

+ discover@sapient.bio

+ 858.290.7010