

Protein detection Capabilities – How to push forward your hit to lead program

Accurate determination of protein quantity and monitoring of signalling pathways within a cell background is a powerful tool to further understand mechanisms of action within the drug discovery field. Western blotting has been the gold standard methodology for detection of protein within biological samples for decades, however, this method is time consuming, suffers from poor reproducibility, and only allows for the collection of qualitative data.

At Charnwood Molecular, we have pioneered the use of Simple-Western technology for drug discovery purposes. This modern alternative to traditional western blotting is high-throughput, truly quantitative, easily adaptable, and only takes 10% of the time.

Our experts have used the simple western technology to validate drug discovery targets, monitor signalling pathways, and perform Structure-activity-relationship (SAR) Proteolysis targeting chimera (PROTAC) screens.