

AI-Enabled QSP Modeling Software

Democratizing and scaling quantitative systems pharmacology (QSP) modeling

Certara IQ is an AI-enabled quantitative systems pharmacology (QSP) modeling software designed to make modeling more accessible, scalable, and reliable across drug development pipelines. By combining AI-enhanced workflows, pre-built model libraries, and cloud-based simulation capabilities, Certara IQ empowers teams to fast-track discoveries, improve decision-making, and enhance clinical outcomes.

100 +

Certara IQ has supported 100+ projects and regulatory filings across global agencies.

The challenge

QSP modeling has demonstrated significant impact in drug development, but its broader adoption is limited by solutions that are resource-intensive, errorprone, and difficult to scale. Existing solutions often lack intuitive interfaces, reusable model libraries, and workflows that are regulatory-ready.

The solution: Certara IQ

Certara IQ brings together the expertise of the world's largest QSP consulting team and combines it with cutting-edge AI capabilities, high-performance computing, and optimized simulation engines to deliver a QSP modeling tool that makes QSP modeling accessible and scalable.

Design Analyze Explore

Key capabilities

- **Pre-validated model libraries** Choose from an expanding set of validated QSP models.
- Al-enhanced interface Validate and interpret models faster with intuitive, Al-driven tools.
- Cloud computing power Run large-scale simulations in minutes.
- Declarative programming Replace complex coding with reusable, simple, and readable statements.
- Integrated workflows Automate analysis and generate regulatory-ready reports.
- Collaboration tools Share, compare, and co-develop models seamle

QSP platform models Pharmacology model packs Certara IQ provides software models across diverse Certara IQ offers pre-build, pre-validated models therapeutic areas to accelerate drug development: designed for rapid use: Immuno-oncology simulator – Optimize Antibody-drug conjugates (ADC) combinations, dose regimens, and biomarkers. Avidity pharmacologies IBD QSP model – Predict disease activity scores with mechanistic models. Biotherapeutics (mono- & bispecific) Immunogenicity simulator – Predict incidence and PK/PD impact. Cell engagers Vaccine simulator – Optimize dosing strategies. Gene therapies

Protein degraders

Benefits of adopting Certara IQ

Neuroscience models – Support discovery in

Alzheimer's, Parkinson's, and more



Licensing & availability

Certara IQ offers flexible and scalable licensing options suitable for organizations of any size.

Request a demo or contact us for more information.

See Certara IQ in action

About Certara

Certara accelerates medicines using proprietary biosimulation software, technology and services to transform traditional drug discovery and development. Its clients include more than 2,400 biopharmaceutical companies, academic institutions and regulatory agencies across 70 countries.