

GastroPlus® PBBM

**Mechanistic biopharmaceutics modeling:
trusted, flexible, and built to scale.**

GastroPlus delivers physiologically based biopharmaceutics modeling (PBBM) built on the ACAT™ framework—the industry's most widely used mechanistic model for oral absorption.



Why innovators choose GastroPlus

Proven scientific foundation

- First commercial PBBM platform
- ACAT™/ACATPlus™ for regional drug absorption, colon-specific drug delivery, local effects throughout the GI tract and complex formulation behaviors
- Trusted by industry, CROs and global regulators

Comprehensive biopharmaceutics modeling capabilities

- Model complex formulations, food effects with all meal type options, and GI physiology
- Utilize all animal and human populations - including disease state, pediatrics, and more
- Applicable across BCS/DCS classes and development stages
- Supports local and systemic exposure modeling

Flexible, integrated modeling

- Seamless integration across all GastroPlus modules & configurations
- Investigate alternative dosage routes, dosing strategies and hypotheses
- Automate complex workflows via API with available R and Python packages
- Adapts as programs evolve—not constrained by predefined workflows

AI-guided, science-driven insight

- AI tools grounded in decades of expert knowledge
- Embedded support for model setup, fitting, and interpretation
- Guidance across lead selection to lifecycle management

Proven validation and regulatory confidence

- 1000+ peer-reviewed publications referencing PBBM applications for all BCS drug types
- 20+ FDA and industry-funded collaborations advancing PBBM science and workflows
- 100s of accepted PBBM regulatory submissions globally