### MIMETAS

# OrganoReady<sup>®</sup> Colon Organoid



### **3D Human Colon Organoid Model**

3D tubules of human adult stem cell-derived colon organoids prepared by MIMETAS experts in the OrganoPlate<sup>®</sup> 3–lane 64 platform.

Designed for seamless integration in your lab, OrganoReady is a ready-to-use platform delivering 64 perfusable colon tubes into your lab. With just 1-2 days of recovery, the tubules are viable with an assay window of at least 10 days, ensuring consistent and reliable results.

This adult stem cell-derived model harnesses the physiological relevance of organoids while providing membrane-free apical and basal access to the model. This allows you to make more accurate predictions of drug responses, such as gastrointestinal toxicity events. Additionally, this model enables the study of human intestinal disease processes, such as for example inflammatory bowel disease.

This is the first ready-to-use adult stem cells derived solution offered licensefree, presenting a cost-effective solution with no hidden fees.



3D schematic of a colon organoid tubule grown in the OrganoPlate<sup>®</sup>.

### Why OrganoReady®?

### Translatable

- Adult stem cell- derived tissue
- Modulatable barrier (membrane free)
- Polarized epithelium
- Proliferative phenotype

### **Fully Characterized Model**

- Presence of enterocytes, goblet and stem cells
- Expressing all relevant markers
- Expressing transporters including Pgp and BCRP
- Functional and inducible CYP3A4
  activity

### Robust

- Reproducible TEER data using the OrganoTEER<sup>®</sup>
- Validated and consistent batch of Collagen-I & organoids
- Guaranteed >95% viable tubules per plate

## High-throughput assessment of barrier function

- Use the OrganoTEER<sup>®</sup> device for sensitive and robust assessment of barrier function in the colon organoid tissues in less than 1 minute per plate
- The ideal assay to study toxicity and inflammation in a physiologically relevant 3D human gut model



Measurement module

Electrode board

The OrganoPlate

Plate holder

### **Fully Characterized Gastrointestinal Model**



### **Multiparametric toxicity assessment**



Dose-response curves to therapeutics, modeling diarrhea induction. Tubule barrier integrity and viability was assessed with OrganoTEER® and an off-plate chemiluminescent assay (ATP), respectively.

### How can you get access to our OrganoReady Colon Organoid?

### Services

MIMETAS offers tailored fee-for-service solutions to advance your therapeutics portfolio using the OrganoReady Colon Organoid model, providing a variety of optimized assays at scale. Contact our experts to discuss how we can help you with disease modeling, compound safety and DMPK studies.

### **Shipped product**

The OrganoReady Colon Organoid model allows screening of compounds to de-risk safety liabilities. Receive the model directly in your lab, complete with all necessary medium to support your safety studies with optimized protocols.

Are you ready to take your cell culture to the next level?



Want to know more? support@mimetas.com