

# ARCTis™ Oncology HCT15

## Always Ready Cryo Tissues

### Origin

HCT-15 cells were isolated from the large intestine of a male Dukes C colorectal cancer patient and can be used for cancer and toxicology research. (ATCC CCL-225™)

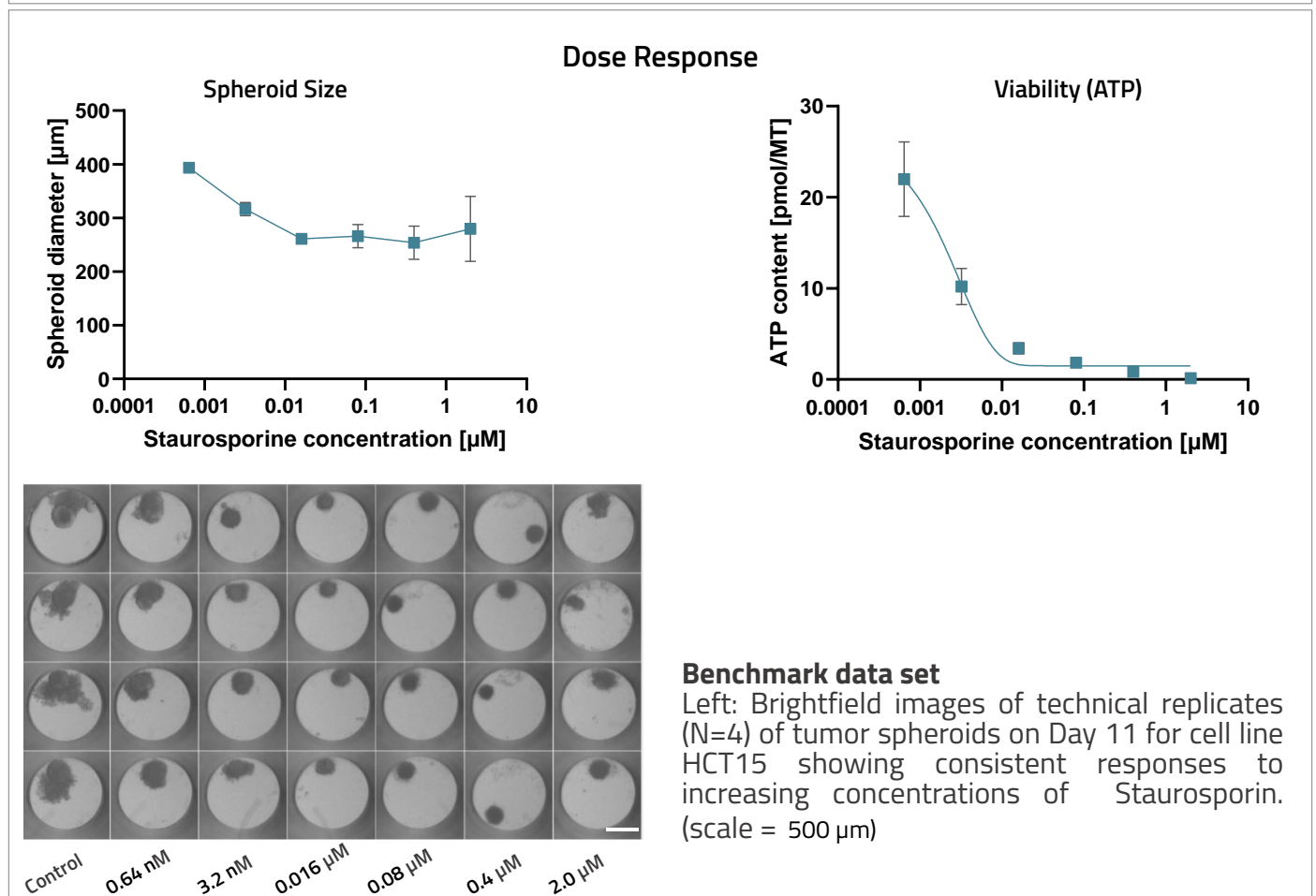
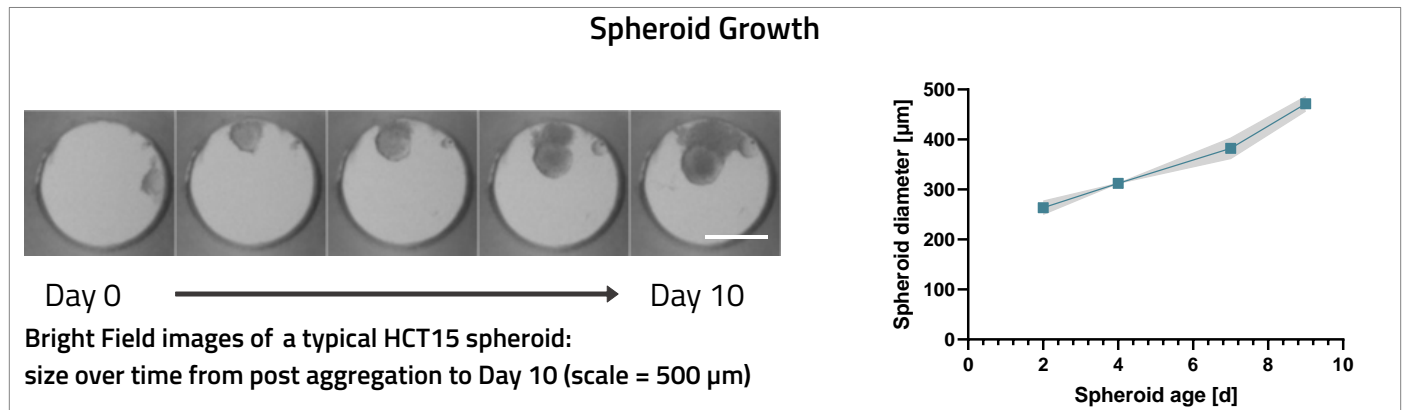
Cell Line	
<b>Product category</b>	Human cells
<b>Organism</b>	Homo sapiens, human
<b>Morphology</b>	epithelial
<b>Tissue</b>	Large intestine; Colon
<b>Disease</b>	Adenocarcinoma; Colorectal; Dukes' type C
<b>Applications</b>	3D cell culture Cancer research High-throughput screening Toxicology
<b>Product format</b>	Frozen
<b>Storage conditions</b>	-80 °C
<b>Culture platform</b>	Akura™ 96 Spheroid Microplate
<b>Delivery format</b>	96 well/ one MT per well

Model set up	
<b>Model type</b>	Monotypic tumor microtissue
<b>Inoculation cell nr.</b>	1000 cells/well
<b>Assay-Ready*</b>	5 days in culture
<b>Morphology</b>	Compact, spheroidal
<b>Size after re-aggregation</b>	~230 µm
Assay specifications	
<b>Assay window</b>	Up to 10 days
<b>Max. tissue size day 10 (Growth window, Ø)</b>	~420 µm (~90 µm)
<b>Viability ATP (Day 10)</b>	~25.0 pmol/MT
<b>Max. Treatment response for size (Staurosporin, Ø)</b>	270 - 420 µm
*Use recommended Re-aggregation Medium **Use Tumor Maintenance Medium	

# ARCTis™ Oncology HCT15

## Reference data set

HCT15 cell line was evaluated for spheroid formation, growth and viability over 10 days. Growth characteristics for this model with respect to proliferation and size were measured over 10 days and benchmarked using a standard cytotoxic agent - Staurosporine. Day 0 defines the start of an assay which for HCT15 is after 5 days in culture for reaggregation and cryopreservation recovery.



## Benchmark data set

Left: Brightfield images of technical replicates (N=4) of tumor spheroids on Day 11 for cell line HCT15 showing consistent responses to increasing concentrations of Staurosporin. (scale = 500 μm)

Item #	Var. Code	Description
AT-NB00-0T0-001	HCT15	ARCTis™ Oncology - Colorectal

Mycoplasma	The cell line was tested negative
Virus	Refer to CoA of prod. lot
Quality Control & batch number	Supplied with each shipment

InSphero AG  
Schlieren, Switzerland  
☎ + 41 44 515 04 90

InSphero Inc.  
Brunswick, ME, USA  
☎ +1 800-779-7558

Email and website  
cryo@insphero.com  
www.insphero/cryo.com

InSphero is ISO 9001:2015 certified

All rights reserved, ©2023 InSphero AG.  
ARCTis and Akura are trademarks of InSphero AG.  
All other trademarks are property of their respective owners.  
For life science only. Not for diagnostic procedures.

Flyer Version: 2023-Jun Vers 1