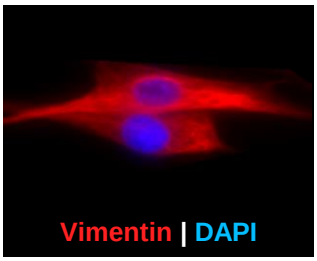
CELL APPLICATIONS, INC.

i-PSC Cardiac Cells

Primary Cells | **Media & Reagents** | **Cell Biology**

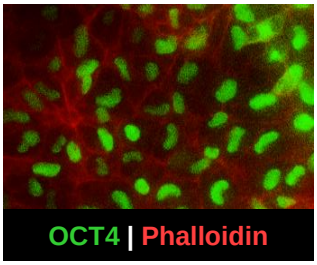
Human iPSC-Derived Cardiac Cells

From Skin Cells to Beating Heart Cells



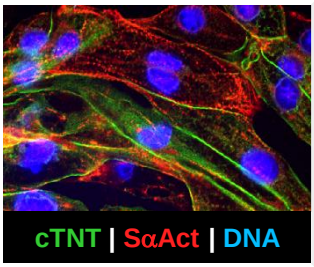
Dermal Fibroblasts

Reprogramming



Induced Pluripotent Stem Cells (HiPSC)

Differentiation



iPSC-Derived Cardiomyoctes (i-HCm)

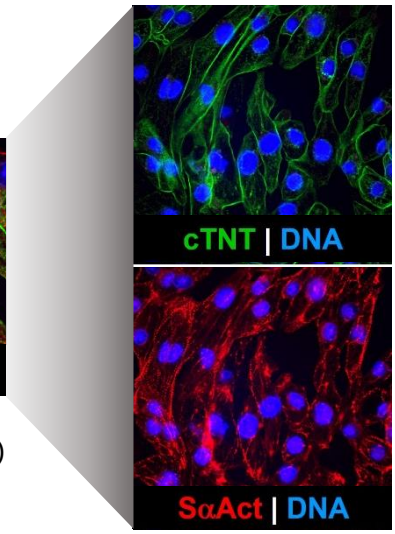
Contains Cardiomyocytes (i-HCm), highly specialized, sensitive, contractile and fatigue-resistant cardiac muscle cells

Powerful in vitro model
- Cardiac physiology
- Cell pulsation
- Spheroids, organoids
- Cardiac disease modeling
- Cardiomyopathy replication

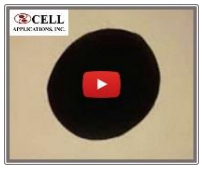
Diverse Applications
- Electrophysiology
- Multi-electrode arrays
- High content microscopy
- Viability screens
- Drug efficacy, safety, toxicity

Manufacturing
- Robust protocol
- Automated
- High yield
- Chemically-defined
- Serum- & feeder-free

Physiologic Relevance of i-HCm
- Proper cardiac cell physiology, maturity and cell-cell interactions
- Integration-free
- Not purified through genetics or selection media
- No risk of genotoxic stress from molecular manipulation
- i-HCm with supporting cardiac endothelial, smooth muscle & fibroblast cells
- Cell population reflects normal heterogeneous cardiac tissue



Cardiomyocyte Markers



See Cardiac Cells beat in 2D and 3D culture

youtube.com/user/cellapplications

Characterization

Good post-thaw viability & plating efficiency, typical cardiomyocyte markers, > 40% i-HCm, spontaneous beating

Product	Description	Size	Cat. No.
Cryopreserved i-PSC-Derived Cardiac Cells	Frozen Human i-HCm & Heart Cell Preparation	1 Cryovial ($2x10^6$)	i357-20

cellapplications.com/i-PSC-Cardiac

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