

**Product Name:** Human Cardiac Organoid

**Cat. No.:** RONO-2603-CXX-059

**Description:** Cardiac organoids recapitulate core features of human heart function, displaying spontaneous and rhythmic contractility that closely resembles native myocardial activity.

Product Details	
<b>Species</b>	Human
<b>Product Type</b>	iPSC-derived Organoid
<b>Quality Control</b>	Negative for mycoplasma, bacteria, yeast, and fungi.
<b>Tissue</b>	Cardiac
<b>Disease</b>	Normal
<b>Generation Process</b>	Cardiac organoids are generated from human induced pluripotent stem cells (iPSCs) through directed differentiation of 3D embryoid bodies. Precise manipulation of developmental signals yields organoids that closely emulate native heart tissue, advancing personalized cardiac research and therapeutic development.
<b>Organoid Characterization</b>	Cardiac organoids exhibit a cellular composition analogous to the human heart, comprising cardiomyocytes alongside non-muscle populations such as cardiac fibroblasts and endothelial cells.

### Application

These physiologically relevant 3D models provide a robust platform for studying cardiac development, disease mechanisms, and drug-induced cardiotoxicity.

### Storage & Handling

<b>Storage</b>	Liquid Nitrogen
<b>Shipping Information</b>	Dry Ice

⚠ For preclinical research and development use only; not intended for therapeutic or other applications.