

Product Name: Human Lacrimal Gland Organoid

Cat. No.: RONO-2603-CXX-057

Description: Lacrimal gland organoids faithfully recapitulate native tear-gland tissue.

Product Details

Advantages	Lacrimal gland organoids exhibiting comparable histology, expression of key markers, and functional responses including pilocarpine-induced calcium signaling and β -hexosaminidase release.
Species	Human
Product Type	Adult Tissue-derived Organoid
Quality Control	Negative for mycoplasma, bacteria, yeast, and fungi.
Tissue	Lacrimal gland
Disease	Gland Disease Model
Organoid Characterization	Histological analysis of lacrimal gland organoids using H&E and Alcian blue staining reveals acinar cell structures and acidic mucin secretion. PAS staining demonstrates the presence of glycogen and glycoproteins, while Masson's Trichrome staining identifies keratin as a major extracellular matrix component. Expression patterns of VIM, AQP5, and LYZ within the organoids closely parallel those of native acinar cells.

Application

This system enables more predictive drug screening, disease modeling, and regenerative research by authentically representing lacrimal gland biology.

Storage & Handling

Storage	Liquid Nitrogen
Shipping Information	Dry Ice

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