

Product Name: Human Epidermal Organoid

Cat. No.: RONO-2603-CXX-038

Description: Human epidermal organoids are 3D models derived from human epidermal stem cells that accurately replicate the structure and function of human skin.

Product Details

Advantages	They are ideal for disease modeling, drug testing, and investigating skin responses to treatments. Compared to traditional 2D cultures, these organoids offer a more accurate representation of human skin, advancing dermatology and cosmetic research.
Species	Human
Product Type	Tissue-derived Organoid
Growth Properties	Embedded 3D Culture
Growth Conditions	Cultured at 37°C under 95% air and 5% CO ₂ .
Quality Control	Negative for mycoplasma, bacteria, yeast, and fungi.
Tissue	Epidermal/Epidermis
Disease	Normal
Format	Frozen
Organoid Characterization	They recapitulate key features of the epidermis, including keratinocyte organization, dermal-epidermal junctions, and stratum corneum formation. These organoids provide a physiologically relevant platform for studying skin development, wound healing, and epidermal diseases such as psoriasis and eczema.

Application

Tissue-derived organoids are widely utilized in drug screening, disease modeling, mechanistic studies, personalized medicine, and regenerative medicine. By accurately modeling disease states, they provide a robust platform for evaluating patient-specific drug responses and supporting individualized treatment planning. Moreover, these organoids enable the development of new therapeutic modalities, particularly in cancer research and tissue regeneration, delivering precise experimental systems that significantly advance precision medicine.

Storage & Handling

Storage	Liquid Nitrogen
Shipping Information	Dry Ice

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