

Product Name: Human PDX Breast Cancer Organoid

Cat. No.: ROTO-2603-CXX-002

Description: Human PDX breast cancer organoids (invasive ductal carcinoma) are 3D tumor models derived from patient-derived xenograft tissue.

Product Details

Advantages	They maintain tumor heterogeneity, support long-term expansion, and recapitulate the architecture and treatment response patterns of clinical breast cancers, providing a physiologically relevant platform for translational oncology research.
Species	Human
Product Type	PDX-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	Breast
Disease	Invasive Ductal Carcinoma
Format	Frozen
Organoid Characterization	Generated from tumor-resident stem-like cells, these organoids preserve the pathological, genetic, and phenotypic features of the original tumor, including ER, PR, and HER2 receptor status.

Application

Human breast cancer organoids are advanced preclinical tools suitable for drug screening, hormonal therapy evaluation, and molecular profiling. They are particularly well-suited for studies of breast cancer and receptor-defined subtypes, enabling precise assessment of drug efficacy and resistance mechanisms. These organoids support personalized therapy development by modeling patient-specific tumor behavior and can be used in co-culture systems for immunotherapy and tumor microenvironment research. Their PDX origin enhances clinical relevance for the development of next-generation targeted therapies.

Storage & Handling

Storage	Liquid Nitrogen
Shipping Information	Dry Ice

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