

NPC1 Non-Parenchymal Cells, Human-derived

Description and Applications

High quality human-derived non-parenchymal cells for hepatocyte co-culture.

Hepatocytes alone are not able to fully represent in vivo functionality during toxicology evaluations. Co-cultures are a liver-derived in vitro model system that aims to preserve liver-specific morphology and functionality beyond what is provided by pure parenchymal cell cultures.

Co-cultures can be prepared using hepatocytes and non-parenchymal cell (NPC) cultures which, has been evidenced to be one of the most successful models for maintaining functionality in vitro when examining drug related hepatotoxicity. NPCs can be co-cultured with hepatocytes in a basement membrane extract (BME) overlay. These cells are suitable for assessing DMPK evaluations and toxicology assessments.

Specifications

Number of Cells per vial	>1 million
Pathogen testing	Tested negative for HBV, HCV and HIV. No bacterial or fungal overgrowth
Stability	Stable for a 1 week long assay
Additives	Thawing medium, percolation medium

Shipping Stability and Storage

Shipping	Liquid nitrogen
Stability and Storage	Liquid nitrogen (stable for up to 12 months)

General Guidance for Handling and Use

- **Handling:** Cells should be transferred to liquid nitrogen storage immediately upon receipt.
- **Plating:** Cells should always be pipetted gently