iPSC-Derived Microglia (MGL) Kit (Normal, Diseased, Engineered)

Product Description

iPSC-Derived Microglia (iMGLs) provide a physiologically relevant and scalable model for studying brain immunity, and neurodegeneration.

Generated from hiPSCs, these cells recapitulate the identity and function of primary microglia, offering a consistent and renewable resource for research. Each lot is validated by strong CD56 and IBA1 expression and functionally confirmed by their robust phagocytosis of β-amyloid aggregates, a hallmark feature of microglial activity.

We are building a panel of iPSC-derived microglia (iMGL) from patients with neurodegenerative diseases, creating disease-specific models for mechanistic studies and therapeutic development.

iPSC-derived microglia (iMGLs) are ideally suited for modeling Alzheimer's and Parkinson's disease, screening drugs, evaluating immunomodulatory therapies, and exploring neuron–glia interactions, providing a reliable and versatile tool for advancing neurobiology and translational research.

Stability and Storage

Upon receipt, immediately transfer the cells from dry ice to liquid nitrogen storage, and maintain them in liquid nitrogen until ready for experimental use.

Shipping

Cryopreserved cells are shipped on dry ice. Live cells are shipped at ambient temperature.

Product Use

The products are for research use only. They are not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Contact Us

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sales@i-linkbio.com

Quality Control:

Catalog Number	**ILC-2008**
Organism	*Homo sapiens*
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Adherent
Total Cell Number	1x10^6 cells/vial
Viability	>80%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of CD56/IBA1 and other markers)
Functional Test	Phagocytosis of β-amyloid aggregates

Representative Data:

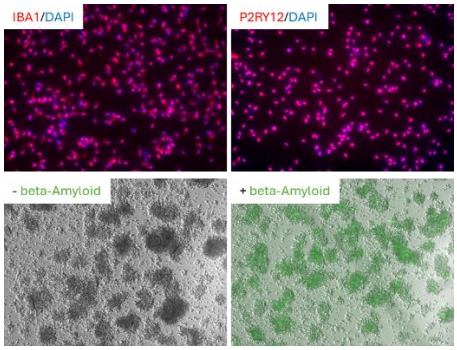

Figure 1. The cells demonstrate high expression level of IBA1, P2RY12 (upper panel) and robust phagocytosis of β-amyloid.

Cell Thawing and Culture Protocol:

1. Thaw the cells rapidly in a 37 °C water bath.
2. Transfer the thawed cells into a 15 mL conical tube.
3. Gently add 2 mL of iMGL Culture Media (Cat# ILC0008M) to the tube.
4. Centrifuge at 200 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in 2 mL of iMGL Culture Media.
7. Seed the cells onto poly-L-Lysine coated plates (typically, one vial yields 1 well of a 6-well plate).
8. Gently distribute the cells evenly across the wells.
9. Incubate overnight at 37 °C in a CO_2 incubator.
10. Half change media every other day.

Related Products:

iMGL Culture Medium (Catalog Number: ILC0008M) is specifically formulated to support iPSC-derived Microglia (iMGLs) recovery and maturation.