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3D-expanded Placenta-derived Cells PLX-R18

National Cancer Institute

Source

National Cancer Institute. *3D-expanded Placenta-derived Cells PLX-R18*. NCI Thesaurus. Code C133823.

A population of proprietary, off-the-shelf, three-dimensional (3D)-expanded, allogeneic placenta-derived stromal cells that can potentially be used to increase hematopoietic recovery from hematological disorders or after a hematopoietic stem cell transplant (HSCT). Upon intramuscular (IM) injection of placental expanded (PLX)-R18, these cells secrete a range of specific hematopoietic, regenerative proteins depending on their in vivo environment. The secreted proteins are involved in maintenance, renewal, proliferation, differentiation, and mobilization of hematopoietic progenitor cells (HPCs), and include, but are not limited to, granulocyte colony-stimulating factor (GCSF), monocyte chemoattractant protein-1 (MCP-1/CCL2), MCP-3 (CCL7), interleukin-6 (IL-6), and IL-8. This increases the number of colony-forming hematopoietic progenitors in the bone marrow, regenerates the bone marrow hematopoietic cells, and elevates and restores blood cell production.