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Inducible CD4+CD25+ Regulatory T Cells

National Cancer Institute

Source

National Cancer Institute. *Inducible CD4+CD25+ Regulatory T Cells*. NCI Thesaurus. Code C102789.

Inducible regulatory T-lymphocytes that express CD4, CD25 (the alpha chain of the interleukin 2 receptor) and forkhead box P3 (FOXP3), with potential immunomodulating activity. Inducible CD4+CD25+ T regulatory cells (iT regs) are a subset of CD4+ T lymphocytes that are induced from CD25- precursors in peripheral lymphoid organs with interleukin-2 and transforming growth factor-beta. These regulatory T cells are essential in maintaining immunologic homeostasis. They may also prevent autoimmunity by suppressing self-reactive T cells, and may induce tolerance to allogeneic organ transplants such as in hematopoietic stem cell transplants.