

CANCER IMMUNOTHERAPY

Powerful Tools for Cell Therapy Development



Target
Discovery



Cell
Engineering



Cell
Characterization



Response
Modeling



Process
Development

Researchers pursuing the development of CAR-T or other cell-based therapies benefit from choosing life science partners who can provide solutions for all steps of the workflow for design, development, and manufacturing of gene-modified cells.

From target discovery to GMP scaleup of the final cellular product, our molecular tools, analytical instruments, and manufacturing process solutions offer complete support for the development process of cellular therapeutics.

Our comprehensive screening approaches powered by CRISPR and shRNA libraries enable identification of novel antigens and other immune modulating targets. Our peptide synthesis services enable you to customize a library for screening effector cell targets.



Tools and services at the vanguard of molecular cloning and gene synthesis accelerate accurate assembly and expression of CAR and TCR constructs. As a leader in gene editing technologies such as ZFN and CRISPR, we put the most powerful tools for rapid and efficient generation of engineered immune cells at your disposal.

Our in-house R&D scientists and engineers have developed state-of-the-art instruments and assays to characterize cell health, phenotype, and function of modified T cells. These include Milliplex[®] MAP kits for multiplexed immune biomarker analysis, and our diverse collection of instruments for advanced cell analysis like Guava[®] and Amnis[®] flow cytometers.



We offer next generation cellular analysis and protein detection platforms such as the Duolink[®] Proximity Ligation Assay to provide unparalleled technical data for defining tumor-immune interactions, establishing safety and efficacy profiles, and predicting response.

Reliable production tools and raw materials meeting GMP standards, plus process development know-how in scalable volumes enable consistent cell therapy expansion. We provide seamless integration of services including cell banking and biosafety testing.



See our complete suite of cell therapy products at: sigmaaldrich.com/cancer-immunotherapy

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

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