

Product Information

Product Name	Recombinant Human DLL4 (Fc Chimera active)
Size	1mg *10µg, 50µg, 1mg
Source	Plant-derived (tobacco leaves)
Formulation	0.45M Arg-HCl / PBS Buffer pH 7.0
Storage	Store at -80°C

Related Products Supporting iPSC-to-HPC Differentiation

 StemFit™ For Differentiation Serum Replacement Supplement, GMP-Compliant	 Recombinant Human bFGF Source Corynebacterium glutamicum
 Recombinant Human SCF Source Corynebacterium glutamicum	 Recombinant Human BMP-4 Source E. coli



AJINOMOTO CO.,INC.

15-1 Kyobashi 1-chome, Chuo-ku, Tokyo 104-8315, Japan
From July 2026, the address will be, 1-7-1 Kyobashi, Chuo-ku, Tokyo 104-0031, Japan

For further information, please contact here. - stemfit@asv.ajinomoto.com

<https://www.ajitrade.com/stemfit/>



The third-party data contained herein are provided without any warranty as to their accuracy, completeness, or freedom from infringement of intellectual property rights. We assume no liability for any damages resulting from the use of such data, and their use is strictly limited to research purposes only.



 **StemFit Purotein™**

GMP-Compliant, Animal-Origin-Free

DLL4-Fc Empowering High-Efficiency T Cell Generation

Meets the Quality Standards Required for Clinical Use

01 AOF

Produced using a tobacco-derived host with no animal-derived components

02 GMP-Compliant Manufacturing

Consistent and reliable quality management

03 Ready to Use After Thawing

No solution preparation required



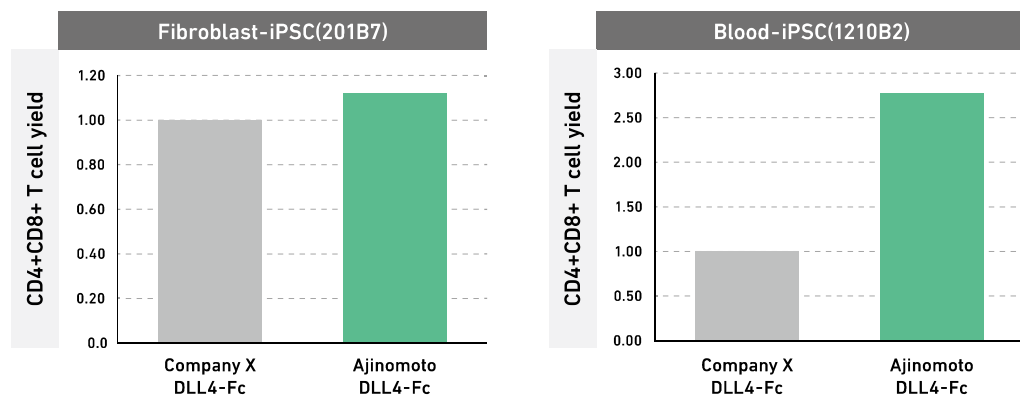
What is DLL4 - Fc?

DLL4-Fc is a rare GMP-grade Notch activation reagent that supports T cell-based therapies such as iPSC-T and allogeneic CAR-T. Our DLL4-Fc is a recombinant fusion protein produced using tobacco plants and is completely Animal Origin-Free (AOF).

It efficiently and consistently activates the Notch signaling pathway and has been shown to drive differentiation from hematopoietic stem and progenitor cells (HSPCs) into DPT cells and NKT cells. Manufactured through an AOF production system and under a GMP-compliant quality management framework, it can be used seamlessly from research to clinical development. With excellent reproducibility, stability, scalability, and regulatory compatibility, DLL4-Fc serves as a critical component at the core of T cell manufacturing platforms.

Superior Induction Performance: From HPC to DP T Cells

Efficient differentiation from HPCs into CD4⁺CD8⁺ double positive T cells has been demonstrated.

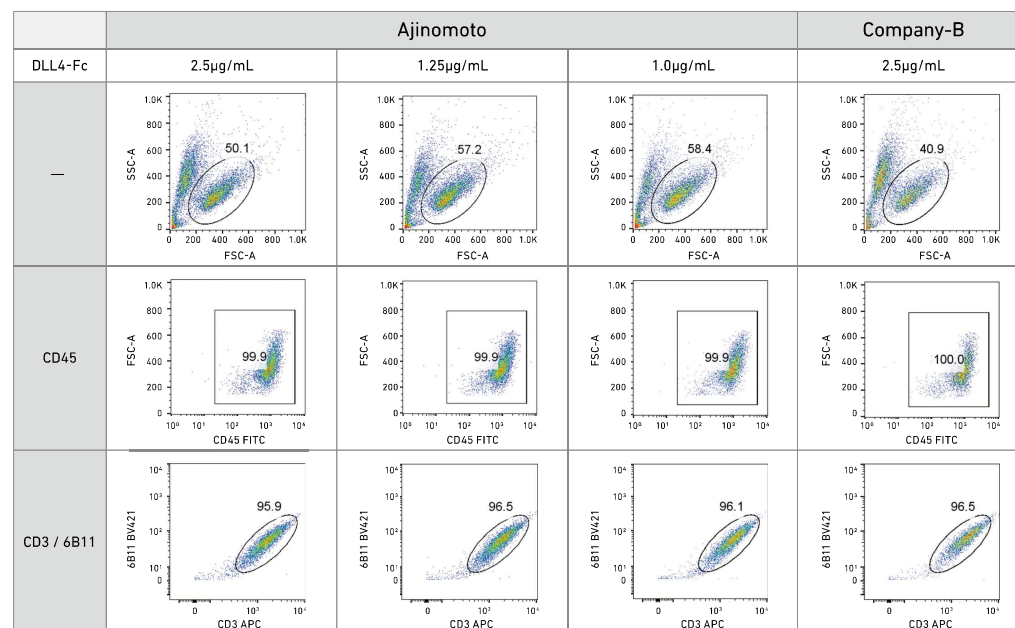
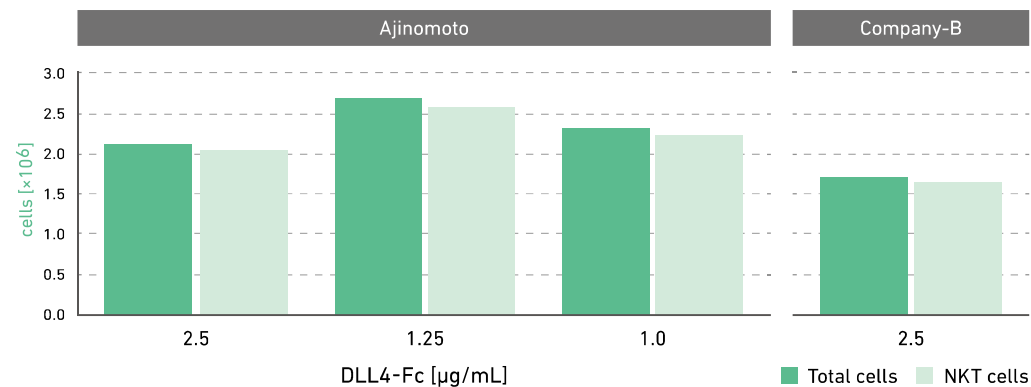


EXPERIMENTAL CONDITIONS

- Coating concentration: 5 µg/mL
- Culture duration: 4 weeks

Superior Induction Efficiency in HSPC-to-NKT Cell Differentiation

In a comparative study conducted by BrightPath Biotherapeutics Co., Ltd, NKT cell differentiation efficiency from HSPC using our DLL4-Fc samples was evaluated against various concentration conditions of our product as well as other commercially available DLL4-Fc products. These results confirm that our product provides sufficient performance.



EXPERIMENTAL CONDITIONS

- Conducted with n = 2 per group
- Day 0 : Seeding of HSPCs ► Confirmation of NKT cell differentiation on Day 14