TACONIC BIOSCIENCES®

FcResolv® huNOG-EXL and huNOG-EXL Models

CD34+ HSC-engrafted humanized immune system (HIS) mouse models supporting both myeloid and lymphoid cells

HIS mice are powerful tools for immuno-oncology research, but reliable engraftment of key human immune cell populations can be a challenge. The Taconic huNOG-EXL models recapitulate essential aspects of the human immune system for accurate and translatable results.

All huNOG-EXL models feature:

- Expert engraftment of CD34+ HSC cells
- Differentiation of both human myeloid and lymphoid cells
- Superior levels of human cell engraftment
- Longer average lifespan compared to other strains that support myeloid cells

huNOG-EXL

FcResolv® huNOG-EXL

In addition, the FcResolv® huNOG-EXL mouse improves accuracy in preclinical studies by knocking out murine Fc gamma receptors that interfere with antibody-based therapies.

Which Delivery Option is Right for You?

Taconic Biosciences offers two delivery options for huNOG-EXL and FcResolv huNOG-EXL models to provide greater flexibility in study design. Both utilize a validated CD34+ HSC engraftment protocol but differ in important ways:

Standard Access (SA): Live inventory, ready to ship

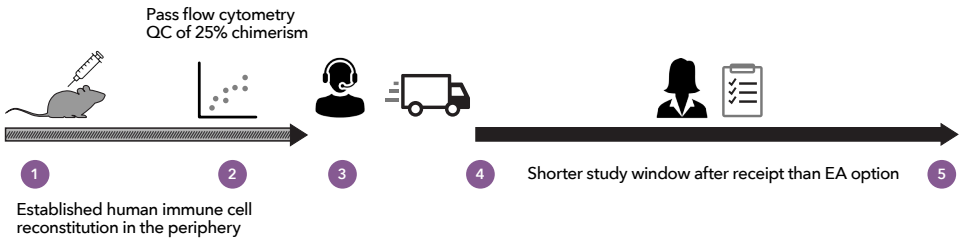


Diagram of Standard Access (SA) huNOG-EXL mice

SA starts with (1) engraftment of NOG-EXL mice with CD34+ HSC cells. (2) At 10 weeks post engraftment (WPE) mice undergo flow cytometry analysis to ensure a minimum of 25% chimerism and are made available for sale. (3) Upon order, mice are shipped within 1-2 weeks. (4) The study window begins once mice are received and acclimated and (5) while Taconic has observed that huNOG-EXL mice can often survive for 25+ weeks post-engraftment (WPE), researchers should plan for studies to be complete by 23-26 WPE.

Early Access (EA): Made to order using validated CD34+ HSC donors

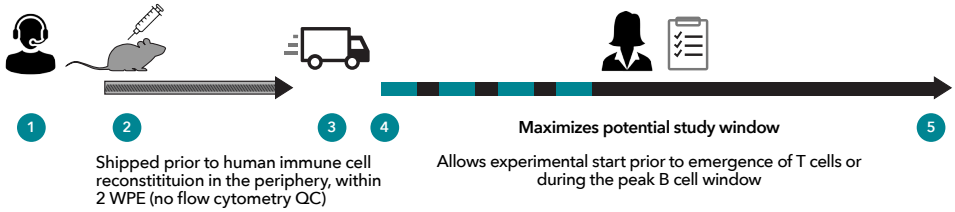
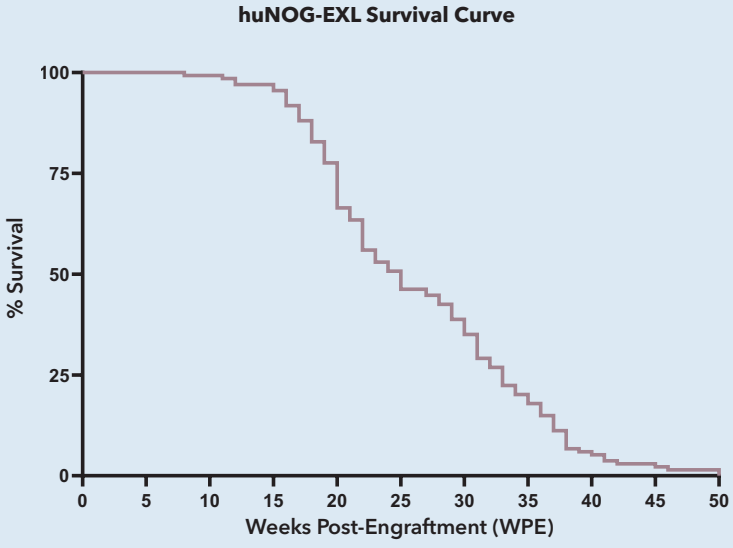


Diagram of Early Access (EA) huNOG-EXL mice

EA mice start with (1) an order being placed. (2) Validated CD34+ HSC donors are used to engraft a suitable number of mice, and (3) animals are shipped within ~2 weeks (4) researchers now have a longer possible study window, prior to emergence of T cells or during the peak B cell period. (5) While Taconic has observed that huNOG-EXL mice can often survive for 25+ weeks post-engraftment (WPE), researchers should plan for studies to be complete by 23-26 WPE.

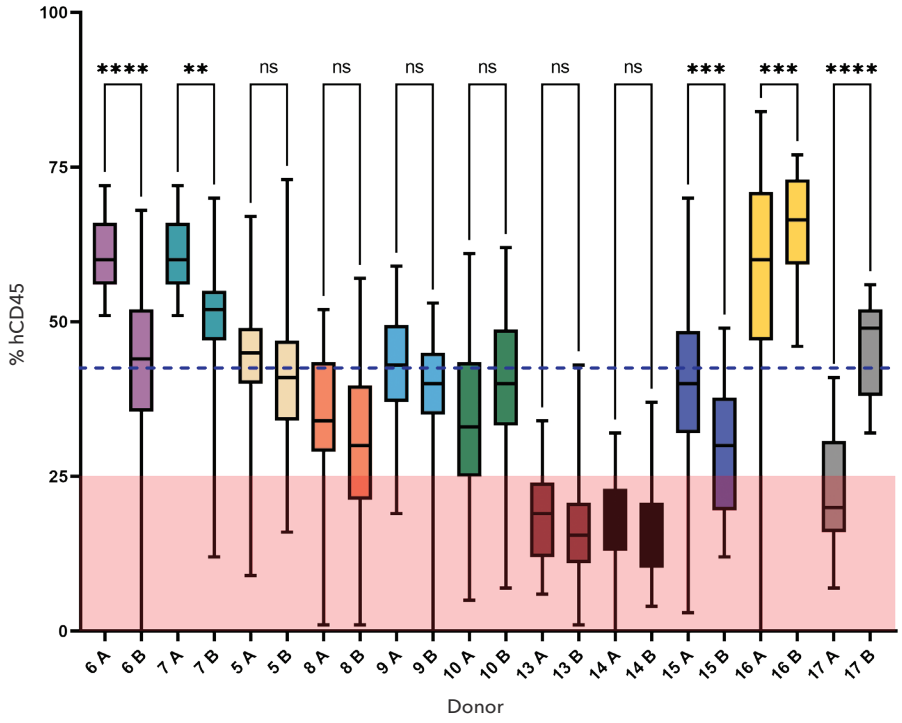


huNOG-EXL mice have extended lifespan compared to competing models

Survival curve for huNOG-EXL mice across 23 donors (n=5-9 per donor), generated in the Taconic Biosciences humanization core during 2022-2023. All myeloid-supportive HIS mice have limited lifespans due to a range of outcomes including anemia, thrombocytopenia and myeloid cell hyperactivation syndrome (Internal Taconic data).

The huNOG-EXL model has the longest demonstrated lifespan compared to competing models; this varies by donor and can be impacted by environmental and experimental factors.

huNOG-EXL EA Mice Are Produced Using Donor Cells with Proven Engraftement Success



CD34+ HSCs from the same donor were engrafted twice, on separate days (A and B), to generate two lots of huNOG-EXL mice per donor. The ability of a donor to produce lots where most mice either met or failed the QC threshold of ≥25% chimerism was replicated between duplicate lots, with one exception in this test set.

Customize Your CD34+ HSC-Engrafted Mice

To support studies that require particular donor profiles or to follow-up on prior studies, Taconic offers customization options for selection of mice or CD34+ HSC donors with particular HLA alleles. You may also choose to reserve donor cells for future HIS model studies to reduce variability.

SELECT YOUR HLA TYPE

Select mice with particular HLA alleles, whether from existing inventory or custom-engrafted

ENGRAFTMENT WITH YOUR CHOICE FROM DONOR CATALOG

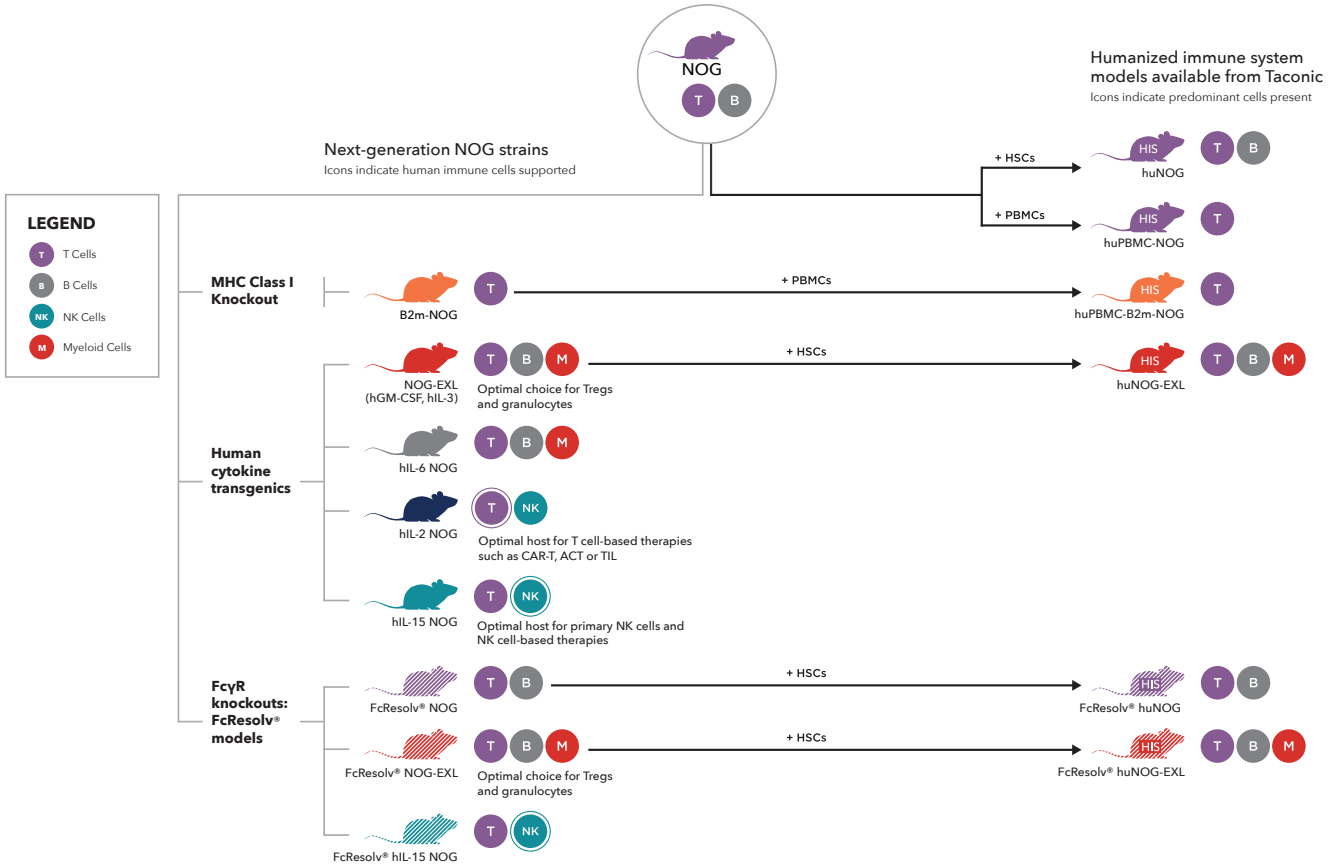
Consult with our experts to select CD34+ HSC donors to meet your specific needs

DONOR HSC RESERVATIONS

Reserve aliquots of CD34+ HSCs from particular donors for future orders

TACONIC BIOSCIENCES

The Taconic NOG Portfolio of super immunodeficient and humanized immune system mouse models



KEY THERAPEUTIC AREAS FOR huNOG-EXL

- Immuno-oncology
- Autoimmune disease
- Infectious disease
- Inflammation and immunology
- Immuno-toxicology and safety assessment
- Studies requiring presence of human lymphoid and myeloid cells

YOUR MODEL PARTNER IN HIS MICE

- Application data available from academic partners
- No license fees or agreements to sign
- Simple label license enables both internal and contract research use
- Support available from expert PhD scientists to maximize your success

Get in touch for more information about our products and services.
US: 1-888-822-6642 | EU: +45 70 23 04 05 | info@taconic.com | Learn more at **taconic.com**