

Integrated Services & Biospecimens for Translational Nephrology

At **Protheragen**, we help researchers and developers overcome the complexity of kidney diseases by providing tailored preclinical services and high-quality biospecimens. Whether you're working on congenital anomalies of the kidney and urinary tract (CAKUT), glomerular disorders, or renal ciliopathies, our platform supports your journey from target discovery to IND-enabling studies.

What We Offer

- Custom disease models for hereditary and immune-related renal conditions
- Mechanism-of-action and biomarker validation studies
- Translational PK, nephrotoxicity, and drug safety services
- Human biospecimens: urine, kidney tissue, primary renal cells

Diseases We Focus On

- ✓ CAKUT (Congenital Anomalies of the Kidney and Urinary Tract)
- ✓ Glomerulopathies (e.g., FSGS, Alport syndrome)
- ✓ Renal ciliopathies (e.g., NPHP, PKD)
- Rare tubulopathies
- ✓ Nephrolithiasis (genetic stone disease)
- ✓ Immune-mediated nephritis (e.g., SLE, IgA nephropathy)

Preclinical R&D Services Category Capabilities Target & Biomarker Discovery Transcriptomics, proteomics, pathway profiling In Vitro Models Kidney organoids, 2D/3D renal tubule models, chip-based flow systems In Vivo Models Genetically modified rodents, toxin-induced models for fibrosis or proteinuria PK/PD & Safety Nephrotoxicity, renal clearance, plasma/urine exposure dynamics Diagnostic R&D Urinary biomarker screening, ELISA/LFA kit development

Human Kidney Biospecimens Available

All samples are collected under IRB-approved protocols and can be tailored to your inclusion/exclusion criteria.

- O Biofluids Urine, serum, plasma from both healthy donors and rare renal disease patients
- ▼ Tissue FFPE and fresh-frozen kidney biopsies with matched clinical data
- O Primary Renal Cells Podocytes, proximal tubular epithelial cells, fibroblasts
- ✓ Molecular Materials DNA, RNA, protein from renal tissue and cell lines

Our services cover a broad spectrum of drug development needs, including model creation, therapeutic development, analytical testing, and biospecimen provision. Contact us to learn more or request a quote-we're happy to provide customized support based on your project stage and research goals.

Please note that we are a research service provider and do not provide diagnostic or treatment services to individuals.

