



bioauxilium

BETTER TOOLS. REAL DISCOVERIES.

CUSTOM ASSAY DEVELOPMENT SERVICES

HIGH-QUALITY, RAPID, AFFORDABLE

Assay development is a complex process that can rapidly become a bottleneck in drug discovery laboratories. BioAuxilium Research offers flexible custom assay development services aimed to accelerate your drug discovery research by reducing assay development risk, time, and cost. We can design, develop, optimize, and validate a sensitive, robust, reproducible, and HTS-compatible TR-FRET assay that will meet your specific requirements.

THE BIOAUXILIUM ADVANTAGES

EXPERTISE

Over 25 years of experience and a proven track record.

EFFICIENCY

A rigorous yet flexible phase-gate assay development workflow.

SPEED

Shortest turnaround times.

AFFORDABILITY

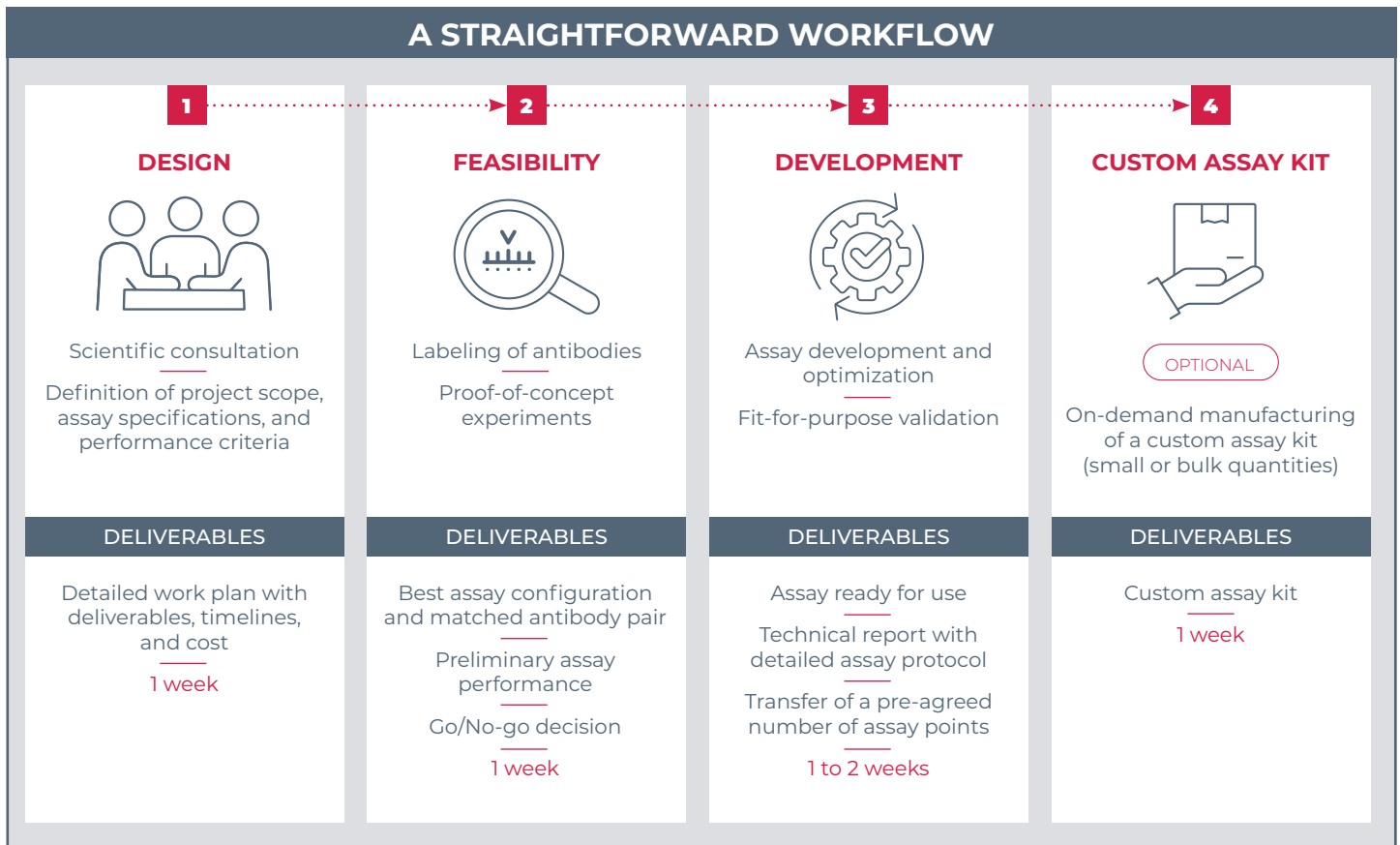
A cost-effective alternative to in-house assay development.

SUPPORT

Unsurpassed customer service with direct contact with our scientists.

HOW IT WORKS

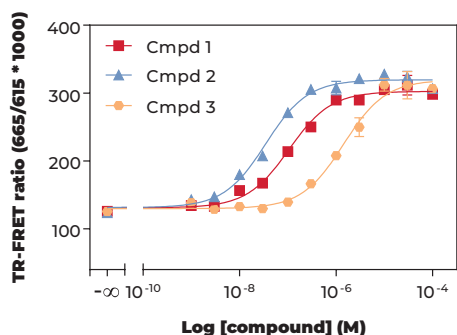
A STRAIGHTFORWARD WORKFLOW



ASSAY DEVELOPMENT OPTIONS

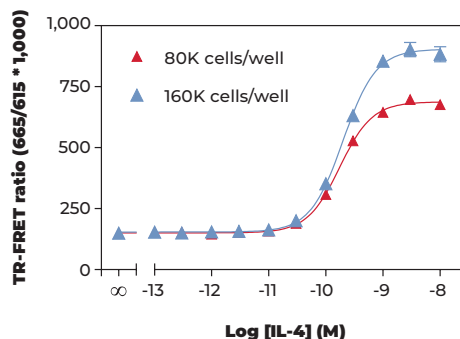
- Antibody labeling
- Identification of an optimal matched antibody pair
- Biochemical assays
- Cell-based assays
- Biomarker assays
- Conversion of ELISA to THUNDER™ TR-FRET assay
- Conversion of AlphaScreen®/AlphaLISA to THUNDER™ TR-FRET assay
- Compound profiling: up to 50 compounds, 10-point concentration response curves (triplicate wells)

EXAMPLES OF CUSTOM ASSAYS



	IC50 (nM)	S/B
Cmpd 1	105	2.5
Cmpd 2	35	2.6
Cmpd 3	1431	2.5

Custom biochemical PARG assay used for screening of 250,000 compounds ($Z' \geq 0.7$) and for SAR support (profiling of 30 compounds per week).



	Number of cells/well	
	80K	160K
EC50 (nM)	0.17	0.21
S/B	4.7	6

Custom cell-based assay designed for quantification of an endogenous phosphorylated protein. The assay is run using an all-in-one-well protocol (no-transfer step).

- Protocol (384w):
- 8 μ L cells
 - 4 μ L compound
 - 15-min incubation
 - 3 μ L Lysis Buffer
 - 30-min incubation
 - 5 μ L Eu-Ab1/FR-Ab2
 - 4-h incubation
 - Read TR-FRET

“We are delighted by the outcome of our collaboration with BioAuxilium. This custom TR FRET assay is robust and more sensitive than any other known assay to measure the activity of the PARG enzyme”

Dr. Kemal Payza, Project Director at NEOMED

We have the expertise to accelerate your basic and drug discovery research across numerous therapeutic areas. Explore all our custom services at www.bioauxilium.com

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FOR MORE INFORMATION: info@bioauxilium.com

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7171 Frederick-Banting Street, Montréal (Québec) H4S 1Z9 CANADA
bioauxilium.com 1-866-610-6933 x 103