As the disease continues to impact the lives of an ever-growing number of people worldwide, Cisbio is simplifying the investigation of diabetes mechanisms with a portfolio of more than 20 assays—all built around a single technology and detection protocol—ideal for everything from target identification to screening to preclinical sample testing.

A WORLD EPIDEMIC.  
A GLOBAL SOLUTION.  

HTRF® assays for diabetes investigation

For more information or to discuss your specific labeling or custom diabetes assay requirements, please contact your local Cisbio representative or visit www.cisbio.com
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**INVESTIGATE DIABETES MORE QUICKLY, EASILY AND DEEPLY.**

With our complete portfolio of diabetes assays, Cisbio gives you the tools you need to research multiple targets and pathways using the same simple detection protocol. Whether you are working with perfused pancreas, islets or isolated α or β cells, our HTRF assays have a proven track record of simplicity, performance and reliability.

**HIGHLY VALIDATED ON RELEVANT DIABETES MODELS**

No matter what your area of investigation, Cisbio assays can accelerate and simplify your day-to-day work, they also have a long history of performance and validation on your cell line for added confidence in your results.

**FEATURES AND BENEFITS**

**HTRF diabetes assays**

- Homogeneous, mix-and-read, non-radioactive assays offer simpler, safer handling and enhanced throughput
- Proven HTRF technology features low sensitivity to interfering compounds and media for exceptional reliability
- Easy miniaturization delivers dramatic cost efficiencies
- Quick and easy development and implementation optimizes lab productivity
- Save time and money by consolidating your testing onto a single homogeneous platform
- Excellent reliability with minimal false positives
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**PRODUCT LIST:**
- IL-1β
- IL-6
- TNFα
- GLP-1
- Glucagon
- Insulin

**CYTOKINES AND HORMONES**

Chronic inflammation and activation of the immune system have a proven connection to diabetes. The release of pro-inflammatory cytokines from adipocytes, including TNFα, IL-6 and IL-1β correlates with the risk of insulin resistance in patients. Cisbio’s biomarker portfolio includes a number of markers directly associated with diabetes to further advance research in this area.

**PRODUCT LIST:**
- IL-1β
- IL-6
- TNFα
- GLP-1
- Glucagon
- Insulin

**GLUCOSE**

Glucose-stimulated insulin secretion of pancreatic ß cell MIN6

EC50 = 1.02 M S/B = 22

**KINASES AND PATHWAY READOUT**

The ability to activate, inhibit or simply modulate major diabetes signaling nodes may lead to important drug discoveries. Pharmacological agents that selectively modulate kinase activities have the potential to reverse the metabolic abnormalities observed with type 2 diabetes. Cisbio’s ever-expanding portfolio of cell-based phospho-protein assays covers many of the pathways linked to diabetes.

**PRODUCT LIST:**
- pAKT
- Total AKT
- Advanced pERK
- Total ERK
- pERK pk-pS6RP
- pS6RP
- pBAD
- p4EBP-1
- pP70S6K
- pSTAT3
- Total STAT3
- pJNK
- pP38MAPK
- pIKKβ
- pMEK1/2

**GPCRs**

The importance of GPCRs in diabetes signal transduction and the resulting impact on glucose levels is widely recognized. Cisbio helps unravel the role of GPCRs in diabetes signaling with a range of tools stretching from the most established second messenger assays in the industry (IP-1 and cAMP) to our award-winning Tag-lite® technology for studying receptor ligand binding.

**PRODUCT LIST:**
- Second Messengers
- cAMP
- IP-One
- Ligand Binding
- Tag-lite GLP-1
- Tag-lite GIP

**INTERACTIVE ASSAY SELECTION TOOL**

For help finding the ideal HTRF assay for your specific targets, please visit [www.cisbio.com/metabolism-diabetes](http://www.cisbio.com/metabolism-diabetes) and click on the interactive Diabetes Navigator.
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