

# Cell-Based Zebrafish Assay Kits

Zebrafish have emerged as pivotal test subjects in the realm of toxicology research. Functioning as an indicator species for aquatic ecosystems, Zebrafish have been utilized for both detecting toxicants in water samples and studying the mechanisms of action behind toxicant-associated diseases. The primary advantage of employing zebrafish in toxicology and environmental health investigations lies in their distinctive developmental attributes, which combines the advantages of both *in vitro* and *in vivo* studies.



Numerous genetic, molecular, and cellular processes shared between zebrafish and mammals make zebrafish studies highly applicable to human exposure and disease. In addition, the combination of large scale embryo production and the rapid development of zebrafish enables swift evaluation of toxicity within a whole animal system. Research employing zebrafish has unveiled crucial insights into the impact of environmental contaminants on the development of a living vertebrate system.

**INDIGO offers first-in-class *in vitro* zebrafish model assay systems, an animal model previously only available as a live-model system.**

While zebrafish are instrumental in a variety of research areas and present an attractive animal model for both water quality monitoring and toxicology studies, whole model testing is unable to provide information on which specific receptors caused the off-target effects. This limitation is one of the reasons why INDIGO has developed its line of cell-based zebrafish receptor kits.

INDIGO's assays provide researchers the means to achieve precise and conclusive insights into the receptors impacted by a given sample and further understand results of an *in vivo* study. Currently, INDIGO has seven cell-based zebrafish assays available for use in toxicological research. If you find that the specific receptor you wish to investigate is not covered by our existing assays, contact us to discuss a custom development project!

## INDIGO's Cell-Based Zebrafish Assay Kits

Z06001 Aryl Hydrocarbon Receptor (AhR)

Z03001 Androgen Receptor (AR)

Z00401 Estrogen Receptor Alpha (ERα)

Z00201 Glucocorticoid Receptor (GR)

Z00101 Peroxisome Proliferator-Activated Receptor gamma (PPARγ)

Z02201 Retinoic Acid Receptor Alpha Isoform A (RARα)

Z01101 Thyroid Hormone Receptor Beta (TRβ)

[www.stratech.co.uk](http://www.stratech.co.uk)  
+44 (0) 1638 782600  
[orders@stratech.co.uk](mailto:orders@stratech.co.uk)

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