Rat AR Reporter Assay System

The principle application of this assay product is in the screening of test samples to quantify functional activities, either agonist or antagonist, that they may exert against the rat androgen receptor.

This nuclear receptor assay system utilizes proprietary non-human mammalian cells engineered to provide constitutive, high-level expression of full length, unmodified Rat Androgen Receptor (nr3c4; AR), a ligand-dependent transcription factor commonly referred to as rAR.

INDIGO's Reporter Cells include the luciferase reporter gene functionally linked to an AR-responsive promoter. Therefore, quantifying changes in luciferase expression in the treated reporter cells provides a sensitive surrogate measure of the changes in rAR activity. Luciferase gene expression occurs after ligand-bound rAR undergoes nuclear translocation, DNA binding, recruitment, and assembly of the co-activators and accessory factors required to form a functional transcription complex, culminating in expression of the target gene. Unlike some other cell-based assay strategies, the readout from INDIGO's reporter cells demands the same orchestration of all intracellular molecular interactions and events that can be expected to occur in vivo.

Ordering Information

Order Online »

NGO-R03001-0032	3x32 assays
NGO-R03001-0096	96 wells

Manuals, SDS & CofA

View Online »

Handling & Storage

Shipping Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name Androgen Receptor

Contents This kit product is an all-inclusive assay system that includes, in addition to rAR Reporter Cells, two optimized media for use during cell culture and (optionally) in diluting the test samples, a reference agonist, Luciferase Detection Reagent, a cell culture-ready assay plate, and a detailed protocol.

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