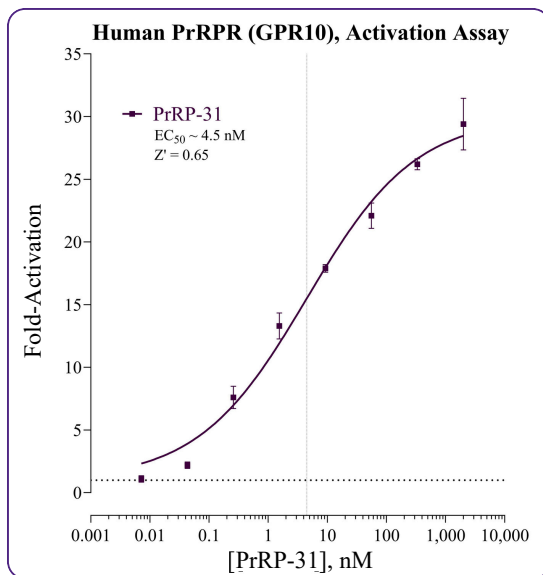


# PrRPR Receptor Assay

INDIGO's PrRPR/GPR10 reporter assay enables precise, reliable profiling of receptor activators and inhibitors with exceptional reproducibility and minimal lot-to-lot variability. Designed for robustness and consistency, this assay delivers high-quality, quantitative data that supports confident decision-making across lead discovery and optimization.

With a streamlined workflow optimized for efficiency, INDIGO's PrRPR assay supports rapid screening of activators and inhibitors, delivering actionable results in as little as 24 hours. The platform integrates seamlessly into existing screening pipelines, helping to accelerate lead identification and advance development timelines without compromising data integrity.



## Available Formats:

IB49001

Human PrRPR Reporter Assay Kit 1x96-well

IB49001-32

Human PrRPR Reporter Assay Kit 3x32-well

Ask us about bulk or custom packaging!

	INDIGO	COMPANY A	COMPANY B	COMPANY C
EC <sub>50</sub> (nM)	4.5	0.8	30	N/A
Assay Type	CRE (Gs/cAMP/ CREB)	Calcium Flux	Calcium Flux	N/A

## Assay Kits

INDIGO's all-inclusive GPCR assay kits are ideal for in-house screening, offering fast setup, consistent performance, and superior sensitivity.

## Services

Let our assay experts help accelerate your timelines. We can run the assays in our lab and you'll receive a complete data package and clear study report in record time!

Want to learn more about our PrRPR Reporter assay? Scan here for more information!



# Background

Prolactin-releasing peptide receptor (PrRPR, a.k.a. GPR10) is a member of the Class A Peptide-GPCR family that regulates diverse physiological functions upon activation by Prolactin-releasing peptide (PrRP). In humans, PrRP has two active forms, PrRP-31 and PrRP-20 which are the only known endogenous ligands for PrRPR.

Evidence increasingly shows the involvement of PrRPR signaling in the regulation of food intake, energy balance, stress response, hormonal activity, and circadian rhythms and sleep. As such, PrRPR/GPR10 may be a suitable target for the development of therapeutics that manage and treat obesity.

# The Assay System

INDIGO's PrRPR Reporter Cells contain an engineered luciferase reporter gene functionally linked to tandem consensus sequences of the NFAT genetic response element positioned upstream of a minimal promoter. When activated, NFAT binds to these response elements to seed the formation of a complete transcription complex that drives luciferase gene expression.

Quantifying relative changes in luciferase activity in the treated reporter cells relative to the untreated cells provides a sensitive surrogate measure of drug induced changes in PrRPR activity. The principal application of this reporter assay is in the screening of test samples to quantify functional interactions, either activating or inhibitory, that they may exert against PrRPR, or the coupled Ca<sup>2+</sup>-calcineurin / NFAT signal transduction pathway.

# Related Assays

IB3300 Human GLP-1R Reporter Assay Kit

IB4700 Human GHSR1a Reporter Assay Kit

M3300 Mouse GLP-1R Reporter Assay Kit

IB4810 Human AMY1R Reporter Assay Kit

IB3800 Human GIPR Reporter Assay Kit

IB4800 Human AMY3R Reporter Assay Kit

IB4500 Human GCGR Reporter Assay Kit

IB4900 Human PrRPR Reporter Assay Kit

***Want to learn more about our PrRPR Reporter assay? Scan here for more information!***

