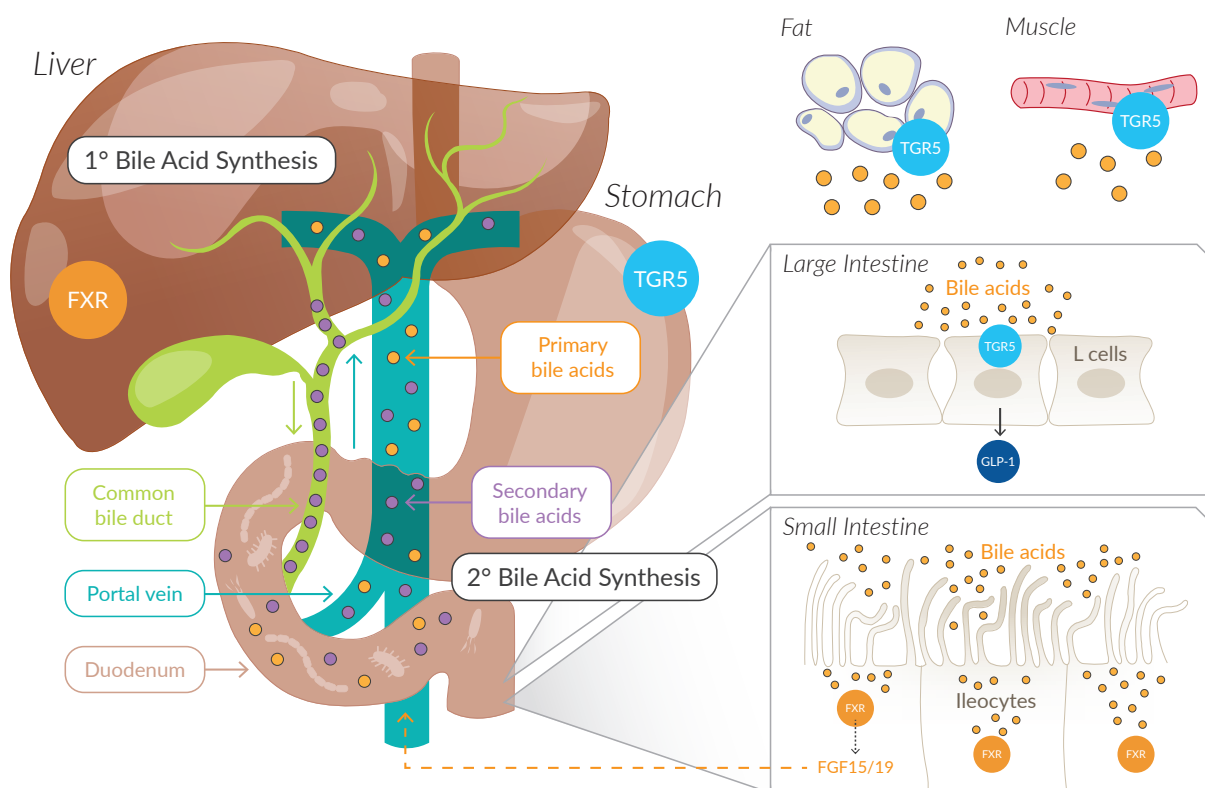


# Bile Acid-Gut Microbiome Axis



The microbiome plays a major role in the biotransformation of nutrients and xenobiotics in the body, which can alter the pharmacology and/or toxicology of these chemicals. A clear example of this is how intestinal microbiota transform bile acids, which act as modulators at bile acid receptors (FXR and TGR5) to affect signaling pathways related to bile acid synthesis and energy metabolism regulation. Cayman offers a wide range of primary and secondary bile acids as well as cell-based assays for easy assessment of potential modulators of FXR and TGR5.



## Bile Acids, Conjugates, and Metabolites

Item No.	Product Name
10011286	Chenodeoxycholic Acid*
20250	Cholic Acid*
9002532	Cholic Acid 7-sulfate
20756	Deoxycholic Acid*
16942	Glycochenodeoxycholic Acid (sodium salt hydrate)*
20276	Glycocholic Acid*
20274	Glycodeoxycholic Acid (hydrate)
22670	Glycohyocholic Acid
22643	Glycohyodeoxycholic Acid
21723	Glycolithocholic Acid
21698	Glycoursodeoxycholic Acid

Item No.	Product Name
20293	Hyocholic Acid
20294	Hyodeoxycholic Acid
20253	Lithocholic Acid*
20676	Lithocholic Acid 3-sulfate (sodium salt)
20291	$\alpha$ -Muricholic Acid
20288	Tauro- $\alpha$ -muricholic Acid (sodium salt)
20287	$\beta$ -Muricholic Acid
9003230	Glycine- $\beta$ -muricholic Acid
20289	Tauro- $\beta$ -muricholic Acid (sodium salt)
20292	$\omega$ -Muricholic Acid
20290	Murideoxycholic Acid

\*Also available: isotopically labeled internal standards

## Bile Acids, Conjugates, and Metabolites (continued)

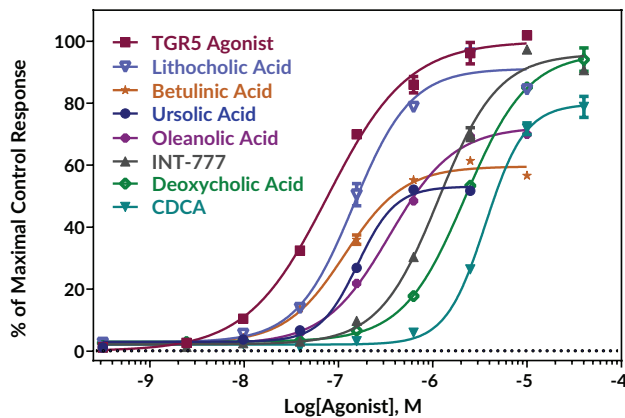
Item No.	Product Name
20275	Taurochenodeoxycholic Acid (sodium salt)*
16215	Taurocholic Acid (sodium salt)*
9002538	Taurocholic Acid 3-sulfate
15935	Taurodeoxycholic Acid (sodium salt)
22669	Taurohyocholic Acid

\*Also available: isotopically labeled internal standards

Item No.	Product Name
21956	Taurohyodeoxycholic Acid
17275	Taurolithocholic Acid (sodium salt)
18468	Taurolithocholic Acid 3-sulfate (sodium salt)
20277	Tauroursodeoxycholic Acid
15121	Ursodeoxycholic Acid (sodium salt)*

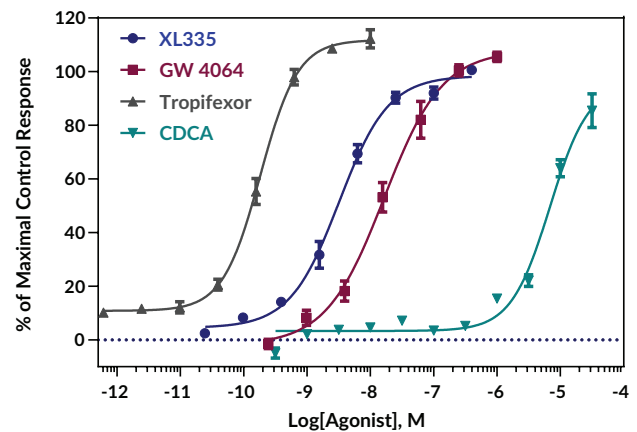
## Cell-Based Assays for Evaluating Modulators of Bile Acid Receptors

### TGR5 (GP-BAR1) Reporter Assay Kit Item No. 601440



Validation of TGR5 reporter assay with different classes of agonists.

### Bile Acid Nuclear Receptor FXR (NR1H4) Reporter Assay Kit Item No. 601790

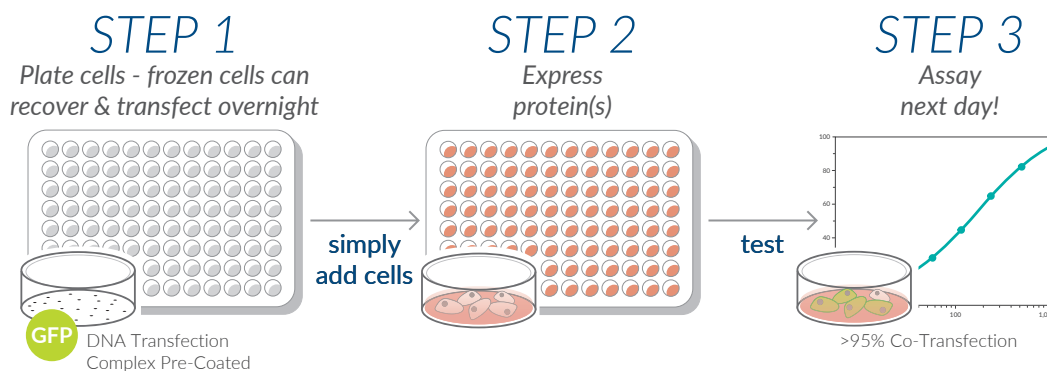


Validation of FXR reporter assay with different classes of agonists.

## About Reverse Transfection Technology

Cayman's TGR5 and FXR reporter assay kits use plates pre-coated with optimized transfection complexes, offering up to 3-fold increased transfection and >95% co-transfection efficiency (compared to traditional transfection methods) for well-to-well consistency.

- No need to develop, maintain, or expand stable cell lines
- Avoid cell lineage variability
- Sufficient reagent provided to sample at multiple time points



View All Bile Acid & Microbiome products at [www.caymanchem.com](http://www.caymanchem.com)

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