

# UDP Glycosyltransferase Assay kit

**Cat. No.** KITZ-050    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

The UDP Glycosyltransferase Assay is a bioluminescent assay for detecting the activity of glycosyltransferases that use UDP-sugars as donor substrates and release UDP as a product. Glycosylation reactions catalyzed by glycosyltransferases are central to many biological processes, including cell:cell interactions, cell signaling and bacterial cell wall biosynthesis.

This assay detects only the activity of glycosyltransferases that use UDP-sugar as a donor substrate and can only be used with purified glycosyltransferases not whole cells or cell extract. However, glycosyltransferases can be purified from cell extract using immunoprecipitation or affinity tag pull down then used in the assay.

### Size

200 Assays

### Storage

Store the UDP Glycosyltransferase Assay at less than  $-65^{\circ}\text{C}$  or store UDP Enzyme at less than  $-65^{\circ}\text{C}$  and the other components at  $-20^{\circ}\text{C}$ .

### Shipping

Dry ice

### Kit Components

10mM UDP: 100  $\mu\text{l}$   
 UDP Enzyme: 20  $\mu\text{l}$   
 Enzyme Dilution Buffer: 1.5ml  
 Nucleotide Detection Buffer: 5ml  
 ATP Detection Substrate (lyophilized): 1 vial

### Materials Required but Not Supplied

Solid white multiwell plate (do not use black plates or clear plates)

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Enzyme reaction buffers; used for enzyme, substrate and compound dilution

Multichannel pipette or automated pipetting station

Glycosyltransferase

Sugar acceptor substrate

Luminometer capable of reading multiwell plates

Plate shaker

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