

## Beta1, 3-Galactosyltransferase (WbgO)

### Product Information

|                                 |                                                                                                                                                                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cat#</b>                     | DIA-660                                                                                                                                                                                                                                                                         |
| <b>Descriptions</b>             | Beta1, 3-galactosyltransferase (WbgO) is involved in bacterial O-antigen biosynthesis, catalyzes $\beta$ -1,3 galactosylation of specific glycan acceptors with high regioselectivity, and is applied in bacterial glycoengineering and oligosaccharide manufacturing research. |
| <b>Applications</b>             | Beta1, 3-galactosyltransferase (WbgO) serves as a tool for O-antigen detection kit development and bacterial glycoengineering assay reagent preparation.                                                                                                                        |
| <b>CAS No.</b>                  | 124-1-86                                                                                                                                                                                                                                                                        |
| <b>Enzyme Commission Number</b> | EC 2.4.1.86                                                                                                                                                                                                                                                                     |
| <b>Enzyme Source</b>            | Escherichia coli                                                                                                                                                                                                                                                                |
| <b>Reaction</b>                 | $\text{GlcNAcOR} + \text{UDP-Gal} = \text{GalBeta1, 3GlcNAcOR} + \text{UDP}$                                                                                                                                                                                                    |
| <b>Activity Definition</b>      | One unit is defined as the amount of enzyme that transfer 1Mumol Gal from UDP-Gal to GlcNAc to form GalBeta1,3GlcNAc per min at 37°C.                                                                                                                                           |