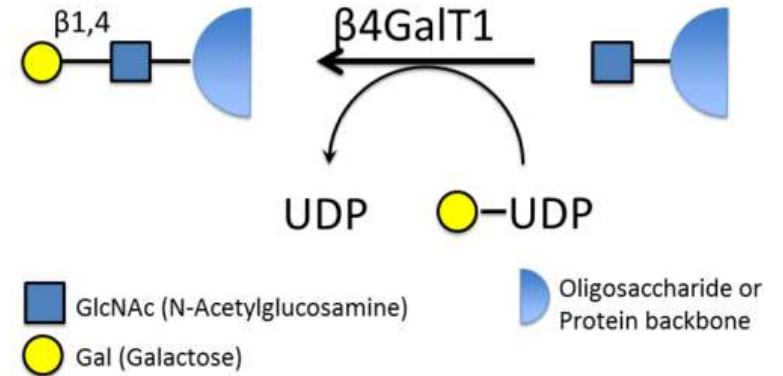


## B4GalT1, soluble fragment, Human Recombinant

<b>CATALOG NO:</b>	P1222-5	5 µg
<b>ALTERNATE NAMES:</b>	Beta-1,4-galactosyltransferase 1, UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 1, UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 1, Beta-1,4-GalTase 1, Beta4Gal-T1	
<b>SOURCE:</b>	Insect Cells	
<b>PURITY:</b>	> 90% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	35 kDa	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	Sterile filtered solution in 25 mM Tris pH 7.5 and 150 mM NaCl, at a stock concentration of 440 ug/ml.	
<b>STORAGE CONDITIONS:</b>	Stable for 4 weeks at 4°C. Stable for 6 months at -80°C. Avoid repeated freeze-thaw cycles.	
<b>DESCRIPTION:</b>	<p>β1,4-galactosyltransferase 1 was the first mammalian glycosyltransferase to be isolated and cloned. β4GalT1 is a member of a homologous family of seven β1,4-galactosyltransferases, β4Gal-T1 – T7, that catalyze the transfer of galactose from UDP-Gal to acceptor sugars including GlcNAc (the acceptor substrate for β4GalT1), Glc and Xyl. β4GalT1 exists as a membrane bound form and as a shed/secreted form deriving from proteolytic cleavage in the stalk region. β4GalT1 may form a heterodimer with α-Lactalbumin, and the complex catalyzes the reaction of UDP-Gal + glucose → lactose + UDP.</p>	
<b>BIOLOGICAL ACTIVITY:</b>	<p>Specific activity &gt;2,500 pmol/min/mg. Measured by transfer of galactose from UDP-galactose (UDP-Gal) to 4-Methylumbelliferyl N-acetyl-β-D-glucosaminide, enzyme reactions containing: 25 mM MES pH 7.4, 0.25% NP-40, 10 mM MnCl<sub>2</sub>, 4 mM UDP-Gal and 0.8mM GlcNAc-Mu. Incubated at 37°C for 30 min.</p>	



### RELATED PRODUCT:

- GalNAc-T2, soluble fragment, Human Recombinant (**Cat. No. P1215**)
- GalNAc-T3, soluble fragment, Human Recombinant (**Cat. No. P1216**)
- GalNAc-T5, soluble fragment, Human Recombinant (**Cat. No. P1217**)
- GalNAc-T16, soluble fragment, Human Recombinant (**Cat. No. P1218**)
- B3GNT6, soluble fragment, Human Recombinant (**Cat. No. P1219**)
- ST6GalNAc1, soluble fragment, Human Recombinant (**Cat. No. P1221**)
- ST3Gal1, soluble fragment, Human Recombinant (**Cat. No. P1222**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**