

Product Information

β 1,4 Galactosyltransferase 7 from Rat (β 4GalT7)

Recombinant form expressed in *Escherichia coli*

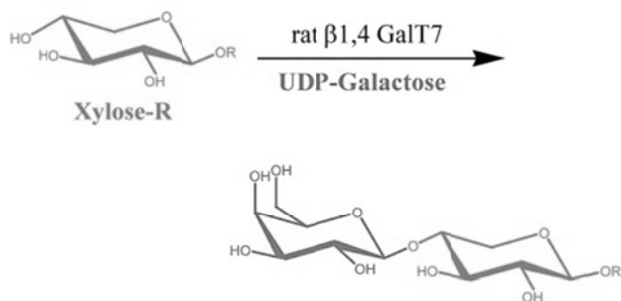
Catalogue Number GT7RN

EC 2.3.1.22

Synonyms: UDP-galactose:D-glucose-4- β -galactosyltransferase

Product Description

UDP-galactosyltransferase (β 4GalT7) is a trans-Golgi membrane bound protein that participates in protein processing in the Golgi apparatus. UDP-galactosyltransferase catalyzes the transfer of galactose from UDP-galactose to Xylose. The exclusive location of UDP-galactosyltransferase in the Golgi apparatus in the vast majority of tissues and cells, makes it a convenient biochemical marker for Golgi membranes.



Galactosyltransferase is the catalytic component of the lactose synthetase system; it synthesizes lactose slowly in the absence of the regulatory protein α -lactalbumin. Galactosyltransferase will also transfer galactose from UDP-galactose to Xylose.

This product is recombinantly expressed in *Escherichia coli* and was purified using nickel-chelation chromatography. The purified enzyme was verified to have a mass of 35 kDa.

β 4GalT1 will contain 0.2 M sodium chloride, 0.3 M imidazole, 10% (v/v) glycerol and 0.1 M Tris/HCl buffer, pH 9.0.

Specific Activity: 0.2-0.4 units/mg of protein

Unit Definition: One unit will transfer 1.0 μ mole of galactose from UDP-galactose to Xylose per min at pH 7.4 at 37C.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the material Data Safety Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product can be stored for up to 2 years at room temperature. After adding the Storage Buffer, store this product at 2-8°C. In liquid form, it will remain active for at least 12 months. For extended shelf-life, please aliquot and store at -80°C. **Do not freeze/thaw multiple times.**

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Sold through QLYCO Ltd., Nanjing

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