

Product description

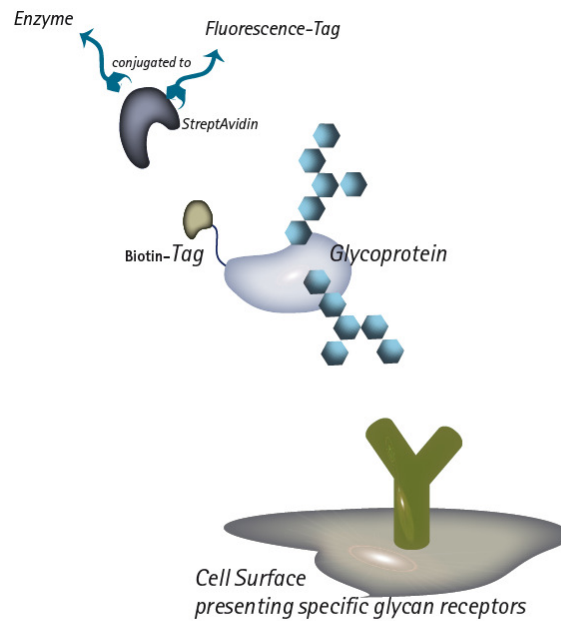
Biotin-conjugated Glycoproteins *

Product description:

Biotin has been covalently attached to glycoproteins. These conjugates are designed for analytical applications as ELISA and other plate assays, gel blotting or cell and tissue staining purposes. Detection of glycoprotein conjugates, specifically bound to Glycan-receptors occurs by (strept)avidin-conjugated molecules. The biotin-avidin system provides a high affinity and non-covalent coupling of biomolecules with high efficiency.

The conjugated glycoproteins offered, can be used as references in glycosylation studies or for a characterisation of glycan receptors.

biotin-conjugated glycoproteins	Amount	Cat. No.
BSA (Blank Control)	5 mg	152000
Asialofetuin	5 mg	152010
Fetuin	5 mg	152020
Horseradish Peroxidase	5 mg (~ 900U)	152030
Glucose Oxidase	5 mg (~ 1kU)	152040
Porcine Thyroglobulin	5 mg	152050
Ovalbumin	5 mg	152060
Transferrin	5 mg	152070
α 1-Glycoprotein	5 mg	152080



General enzyme-linked lectin assay procedure

The following protocol describes the procedure for the detection of lectin specificities in an enzyme-linked lectin assay or a determination of the glycosylation of glycoproteins on well characterised lectins.

The buffer solutions used in this protocol refer to our *Reagents for Analytical Assays* (www.galab.de/technologies).

They are carefully selected and tested for microplate assay purposes.

1 Preparation of solutions

Assay buffer pH 8.0 (binding and washing)

Dilute the 20x buffer concentrate. Dilute the content of the 20x buffer solution by adding the content of the bottle to 475 mL deionized water (yields 500mL).

Equilibration Buffer pH 8.5

Dilute the 2x buffer concentrate. Dilute the content of the 2x buffer solution by adding the content of the bottle to 25 mL deionized water (yields 50mL)

2 Adding the glycoprotein (Incubation: 2h at ambient temperature to over night at 4°C)

Dilute your glycoprotein to a concentration of 10µg/mL (in assay buffer). The volume, added to the plate depends on the format and modified well volume (described in the microplate product description).

Wash the plate 5 times with cold Assay Buffer. Drop the plate out on a tissue.

3 Adding an streptavidin-alkaline phosphatase (Incubation: 1h at ambient temperature)

Dilute the enzyme conjugate in a dilution range of 1:1.000 to 1:10.000 (depends on the enzyme activity) in assay buffer. The volume, added to the plate depends on the format and modified well volume (described in the microplate product description).

Wash the plate 3 times with cold Assay Buffer AND 2 times with the detergent-free equilibration buffer. Drop the plate out on a tissue after the wash steps.

4 Substrate solution

The choice of the appropriate buffer and substrate depends on the detection mode. The following substrates can be used in combination with an alkaline phosphatase:

p-Nitrophenylphosphate

Reading: 405nm

Fluorescein Diphosphate

Reading: Excitation/ Emission at 494±4nm/ 518±4nm

Please consider: the enzymatic reaction depends on the temperature of your substrate solution.

* for research, laboratory and in vitro use only; not for drug or diagnostic use, food or food additives, household or other uses.