

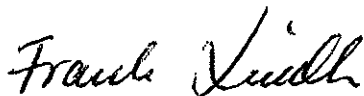
Product #	Description	Host / Presentation	Packing	
BCR60/93	6'-Sialyllactose-APD HSA		0.5 mg.	

Certificate of Analysis

Sugar analysis by the "*anthrone method*" showed the following degree of incorporation of oligosaccharide in the protein:

6'-Sialyllactose; (60/93), Lot No. 1140-096; contain 30 mol oligosaccharide / mol protein

The oligosaccharide is isolated from human milk and derivatized by reductive amination to an N-acetylated *p*-phenylenediamine derivative, which is conjugated to HSA by the isothiocyanate coupling method. The reducing monosaccharide unit of the oligosaccharide is thus reduced and present in the conjugate as an aminoalditol. The HSA used is Sigma's A-3782 ("Essentially fatty acid free. Prepared from crystallized and lyophilized essentially globulin-free albumin").



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BCR 60/93

SPECIFICATION OF SYNTHETIC GLYCOPROTEIN

CHEMISTRY

The glycoprotein was prepared by linking an oligosaccharide TFAC or TAPE derivative (formula, see below) to Human Serum Albumin (HSA, Sigma A 3782). Oligosaccharide TFAC derivatives were prepared (Kallin, 1986) from the corresponding reducing oligosaccharides, which were in turn isolated from natural sources. The oligosaccharide TAPE derivatives were prepared by multistep synthesis from the corresponding monosaccharides. The chemistry used for the linking reaction is well established for conjugation reactions (Svenson, 1979, Zopf, 1978, and Kallin, 1986).

PRODUCT DATA

The hapten density of the glycoprotein is expressed as haptens per 65000 d. These figures are based on anthron-sulfuric acid quantification* of the sugar content of the conjugate, where the free hapten is used as a standard and underivatized protein is used as "zero". The following value(s) were obtained:

* In case of glycoproteins containing N-acetylhexosamine as the only sugar, GLC analysis was used instead of the anthron-sulfuric acid method.

<u>product name</u>	<u>product number</u>	<u>lot number</u>	<u>hapten density</u>
6-sialyllactose HSA	BCR 60/93	1140-096	12

REFERENCES

Kallin E, Lönn H, Norberg T Glycoconjugate J (1986) 3:311-319
 Svenson SB, Lindberg AA (1979) J Immunol Methods 25:323-35
 Zopf DA, Smith DF, Drzeniek Z, Tsai CM, Ginsburg V (1978) Methods Enzymol 50:171-75

STRUCTURES

