

GLYcoDiag is a French company specialized in **glycobiology and glycoanalysis services and products** for the biotech, pharma, veterinary, cosmetic and diagnostic industries. Our unique experience provides the services and products needed to speed up your projects. **Visit our website for more information [www.glycodiag.com](http://www.glycodiag.com)**

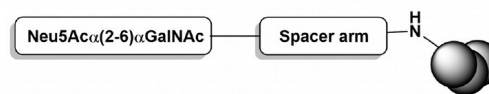
**Product of the month**

**Tumor associated carbohydrate antigens like neoglycoproteins**

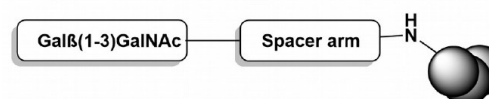
T and STn neoglycoproteins with respectively Galβ(1-3)GalNAc and Neu5Acα(2-6)GalNAc were developed. These two neoglycoproteins are potentially useful for the research and development of some cancer diagnostics and therapeutics.

The neoglycoproteins are available at 1 mg not labelled or labelled with either biotin or fluorescein and are fully characterized and tested through GLYcoPROFILE for specific interactions with lectins .

Neo-STn (Neu5Ac(a2-6)GalNAc-BSA)



Neo-T (Galβ1-3GalNAc-BSA)

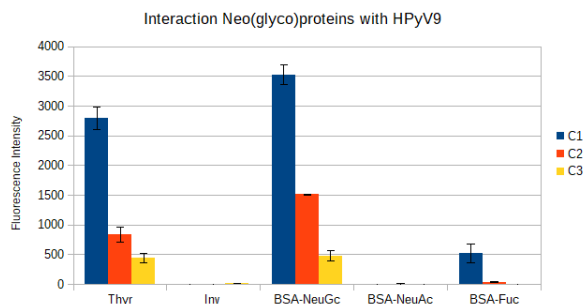


**Contact-us for a quotation**

**Focus on HPyL, a NeuGc specific lectin**

**HPyL (Recombinant Human polyomavirus 9 VP1)**, is a lectin produced in *Escherichia Coli* (E. Coli) that **preferentially binds to sialyllactosamine compounds with terminal 5-N-glycolylneuraminic acid (Neu5Gc) over those with terminal 5-N-acetylneuraminic acid (Neu5Ac)**. In fact, the preference for Neu5Gc is explained by the architecture of the sialic acid binding site in HPyL, which allows specific recognition of the extra Neu5Gc hydroxyl group via hydrogen bonds to side chains (Khan, Z. M., Liu, Y., Gilbert, M., Ehlers, B., Feizi, T., Stehle, T., *J. Virol.*, **2014**, 88, 6100-6111).

This observation was also confirmed with the functionality test achieved according to our GLYcoPROFILE technology (see *Figure 1*, below, GLYcoDiag data) of the pure recombinant HPyL that showed a better interaction with the neoglycoprotein Neu5Gc over the neoglycoprotein Neu5Ac.



**Figure 1.** Test of functionality of HPyL on neo(glyco)proteins. Thyr : Thyroglobuline bovine, Inv: Invertase, BSA-NeuGc, BSA-NeuAc, BSA-Fuc : Neoglycoproteins functionalised respectively with NeuGc, NeuAc and Fuc. C1, C2 and C3 = concentration of neoglycoprotein with C1 = 4C3, C2 = 2C3.

HPyL is available at 1 mg or 5 mg unlabelled or labelled (e.g. biotinylated or fluoresceinylated).

**Contact-us for more information**



**Mark your calendar !!! - Key dates in 2020**

- **GFG 2020 postponed.** GLYcoDiag will participate to the **GFG2020 symposium** that will finally take place in Brainville, Normandie, France **from 07<sup>th</sup> to 11<sup>th</sup> September 2020.**