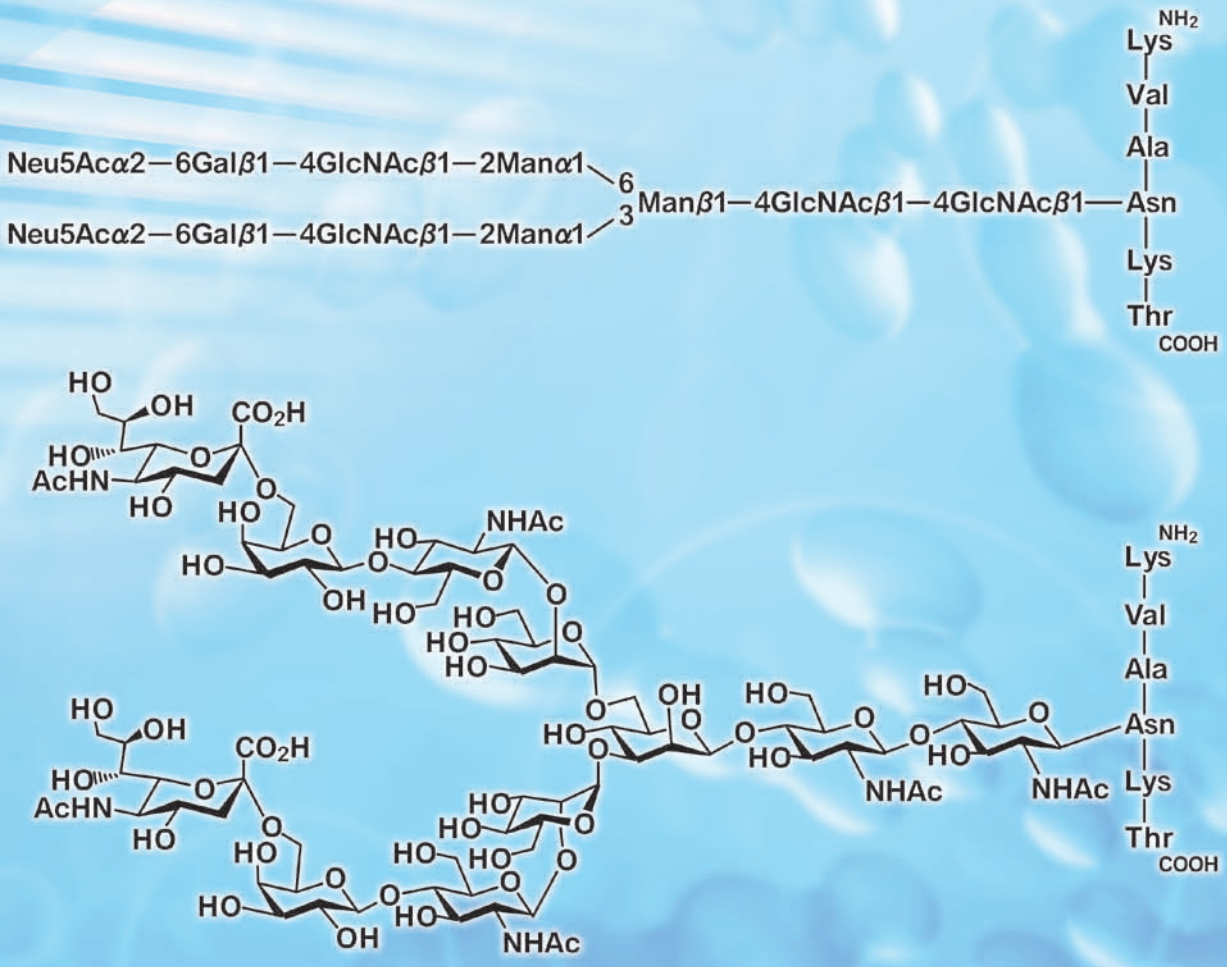
FUSHIMI PHARMACEUTICAL Co. Ltd.

Sialylglycopeptide

SGP



[Expected Applications]

1. Raw material for bio-pharmaceuticals
2. Analytical reagents to assay virus
3. Reagent for researches in glyco science (raw material for glycolibrary)
4. Masks and air filters to catch influenza virus

FUSHIMI Pharmaceutical Co.,Ltd.

FUSHIMI PHARMACEUTICAL Co. Ltd.

Sialylglycopeptide SGP

CAS No.	189035-43-6	Assay	min. 95%(HPLC)
Formula	$C_{112}H_{189}N_{15}O_{70}$	Appearance	White powder
Molecular Weight	2865.78	Package	10mg, 100mg, 1g

【Contact Us For Availability and Price】

Application

SGP is a glycopeptide carrying a complex-type oligosaccharide chain with two terminal sialic acid units.[1] This terminal structure is known to be involved in various bio-reactions. For example, hemagglutinin present on the surface of influenza virus recognizes the cell surface by exerting a chemical interaction with sialic acid.[2] By using this property, glyco-peptides having sialic acid at the terminal are expected to be good candidates for anti-influenza and other pharmaceuticals.[3][4]

Homogeneous Glyco Structure

It is well known that the synthesis of structurally homogeneous carbohydrate chain is difficult due to various types of glycoside bonding.
On the other hand, egg yolk is known to contain a glycopeptide with homogeneous structure. The main component is SGP. We have succeeded in producing SGP having homogeneous structure in a large quantity at a low production cost.
We hope this will open various opportunities to develop new bio-pharmaceuticals and bio-analytical reagents.

Expected Applications

1. Raw material for bio - pharmaceuticals.
2. Analytical reagents to assay virus.
3. Reagent for researches in glyco science (raw material for glyco library).
4. Masks and air filters to catch influenza virus.

Derivatives of SGP can also be synthesized upon request.

Please don't hesitate to contact us if you have any questions

INFORMATION

FUSHIMI Pharmaceutical Co.,Ltd.

Minato Factory R&D Sec. 307 Minato-machi, Marugame, Kagawa 763-8605 Japan Telephone : **+81-877-22-6283**
Tokyo Office R&D Sec. 4-4-3 Nihonbashimuromachi, Chuo, 103-0022 Tokyo Telephone : **+81-3-3243-4860**
[URL] **http://www.fushimi.co.jp/** [E-mail] **info@fushimi.co.jp**

REFERENCES

1) A. Seko et al., Biochim. Biophys. Acta, 1997, 1335, 23-32. 2) G. N. Rogers, J. C. Paulson, Virology, 1983, 127, 361-373.
3) M. Umemura et al., J. Med. Chem., 2008, 51, 4496-4503. 4) Y. Sugita-Konishi et al., J. Agric. Food Chem., 2004, 52, 5443-5448.