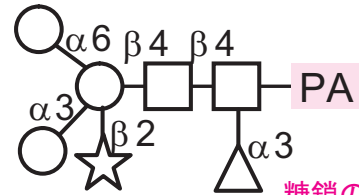


000.1FX

二次元糖鎖マップ法でつけた
コード番号 (図 1 参照)



糖鎖の構造
(図 4 参照)

(Hex3HexNAc2Fuc1Xyl1+PA)

糖鎖の組成

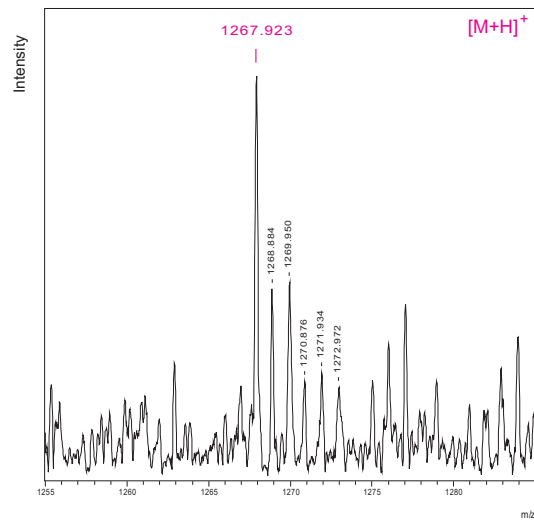
Molecular Weight : 1266.56

糖鎖の分子量

Matrix に DHB を使用.

分子量関連イオンの Proton 体 [M+H]⁺

DHB proton MS



Method : Reflector Positive mode

MALDI リフレクター 陽イオン モード で測定.

Origin: Horse radish peroxidase 糖鎖の由来

Class: Complex type N-glycan 糖鎖の分類

Key Words: 参考文献

植物抗原・Plant antigen, エンドサイトーシス・
Endocytosis

References

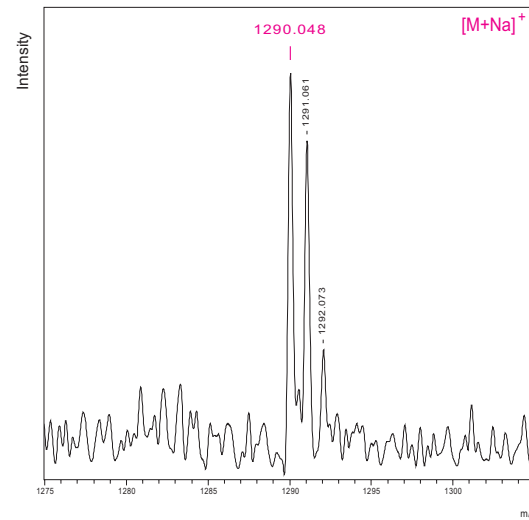
Takahashi,N., Lee,KB., Nakagawa,H., Tsukamoto,Y.,
Masuda,K., Lee,YC. New N-glycans in horseradish
peroxidase. *Anal Biochem*, **255**, 183-187 (1998)

Wilson, IBH. and Altmann, F. Structural analysis of
N-glycans from allergenic grass, ragweed and tree pollens:
Core α 1,3-linked fucose and xylose present in all pollens
examined. *Glycoconjugate J*, **15**, 1055-1070 (1998)

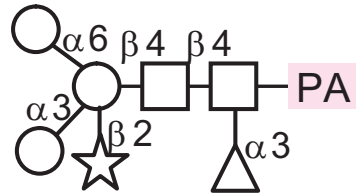
Matrix に CHCA を使用.

分子量関連イオンの Na ion 体 [M+Na]⁺

CHCA Na ion MS



000.1FX



(Hex3HexNAc2Fuc1Xyl1+PA)

Molecular Weight : 1266.56

Origin: Horse radish peroxidase

Class: Complex type N-glycan

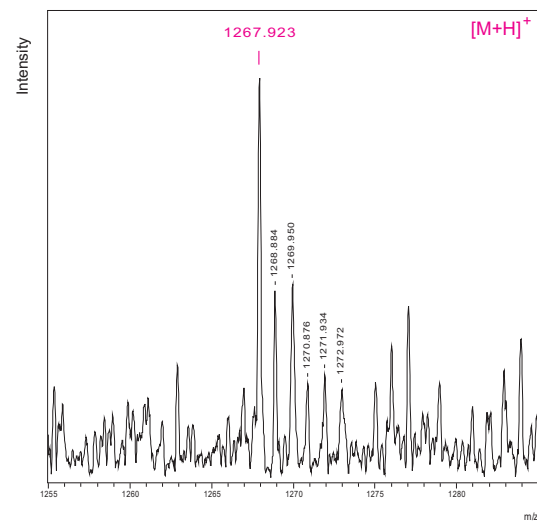
Key Words:

植物抗原・Plant antigen, エンドサイトーシス・Endocytosis

References

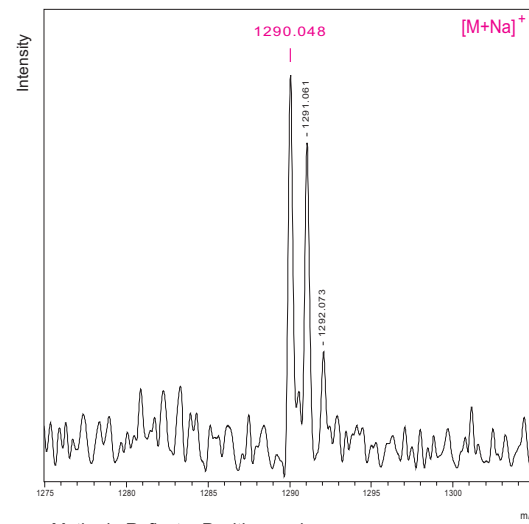
Takahashi, N., Lee, K.B., Nakagawa, H., Tsukamoto, Y., Masuda, K., Lee, Y.C. New N-glycans in horseradish peroxidase. *Anal Biochem*, **255**, 183-187 (1998)Wilson, I.B.H. and Altmann, F. Structural analysis of N-glycans from allergenic grass, ragweed and tree pollens: Core α 1,3-linked fucose and xylose present in all pollens examined. *Glycoconjugate J*, **15**, 1055-1070 (1998)

DHB proton MS



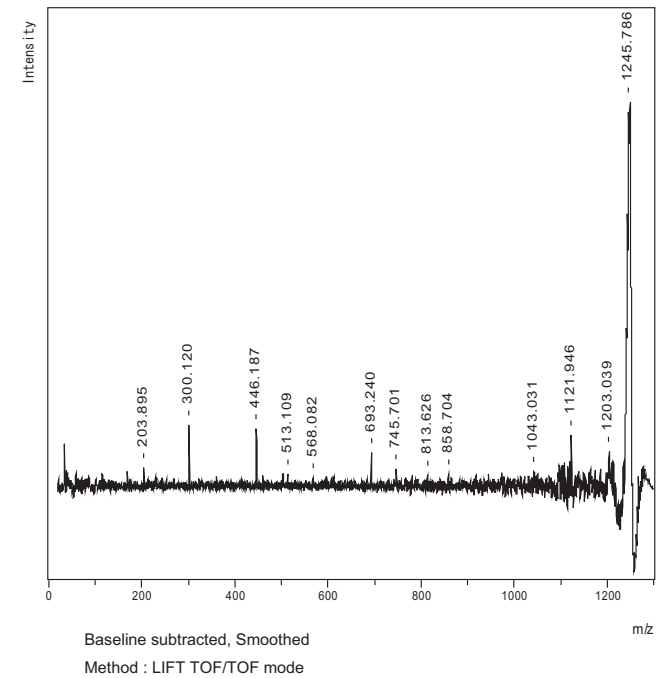
Method : Reflector Positive mode

CHCA Na ion MS



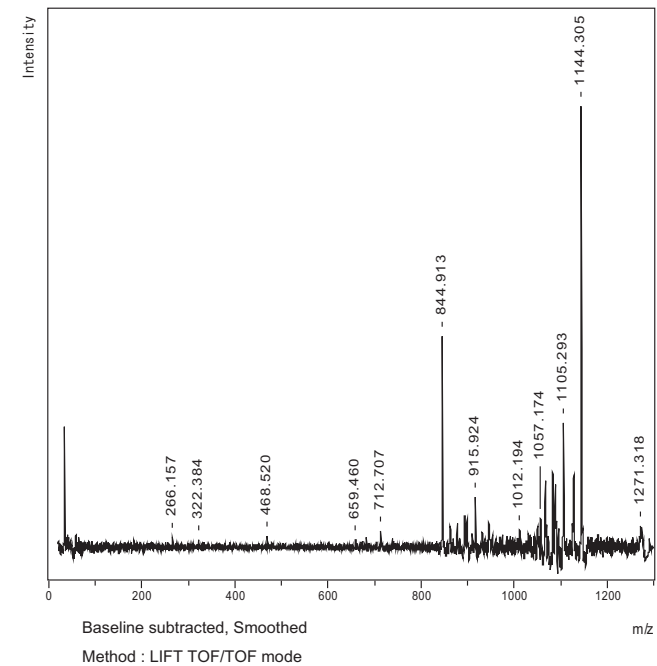
Method : Reflector Positive mode

DHB proton MS/MS



fragment	theoretical	ion type	m/z
***	***	***	167.85
HexNAc	204.09	b ion +H	203.90
***	***	***	229.00
M-3Hex-HexNAc-Fuc-Xyl	300.16	y ion +H	300.12
M-3Hex-HexNAc-Xyl	446.21	y ion +H	446.19
***	***	***	460.28
M-3Hex-Fuc-Xyl	503.24	y ion +H	503.22
***	***	***	513.11
***	***	***	568.08
***	693.25	a ion +H	693.24
***	***	***	745.70
***	***	***	781.34
***	***	***	813.63
***	***	***	858.70
***	***	***	1043.03
M-Hex	1105.44	y ion +H	1106.28
M-Fuc	1121.44	y ion +H	1121.95
***	***	***	1203.04
***	***	***	1245.79
M	1267.49	+H	1267.78

CHCA Na ion MS/MS



fragment	theoretical	ion type	m/z
***	***	***	266.16
M-3Hex-HexNAc-Fuc-Xyl	322.14	y ion +Na	322.38
M-3Hex-HexNAc-Xyl	468.20	y ion +Na	468.52
***	659.20	c ion +Na	659.46
***	683.28	x ion +Na	682.68
3Hex+HexNAc	712.23	i ion +Na	712.71
***	***	***	738.13
3Hex+HexNAc+Xyl	844.27	b ion +Na	844.91
***	862.28	c ion +Na	862.22
***	***	***	877.75
***	***	***	893.90
***	***	***	898.56
***	***	***	909.53
3Hex+2HexNAc	915.31	i ion +Na	915.92
***	***	***	931.43
***	***	***	945.86
M-Fuc-Xyl	1011.38	y ion +Na	1012.19
***	***	***	1030.76
***	***	***	1049.88
***	***	***	1051.58
***	***	***	1057.17
***	1067.40	x ion +Na	1067.06
***	1083.40	x ion +Na	1083.26
***	***	***	1088.05
***	***	***	1105.29
M-Hex	1127.42	y ion +Na	1127.74
M-Fuc	1143.42	y ion +Na	1144.31
***	***	***	1271.32
M	1289.48	+Na	1290.06