Certificate of Analysis

LudgerPure™ Procainamide Labelled FA2G1 Glycan

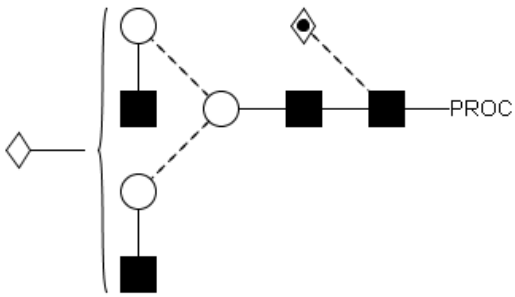
Cat. #: CPROC-FA2G1-01 Batch: B56U-01

Size: approx. 20 pmol Expiry Date: 30 June 2020

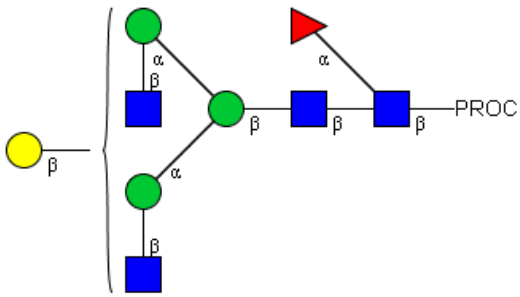
Alternative Names

G1F

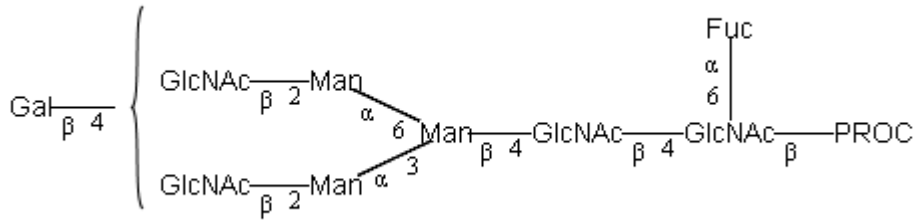
Structure



Oxford Notation



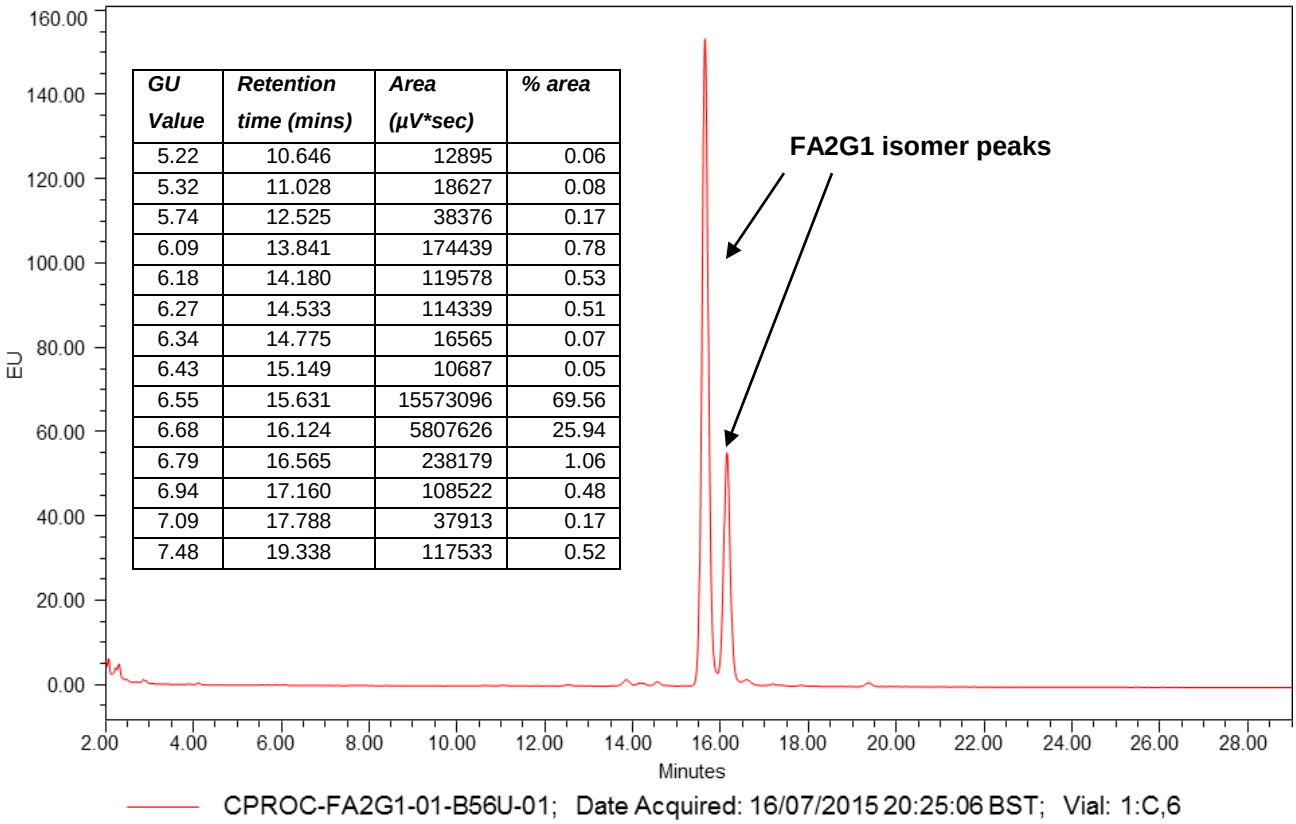
CFG Notation



Text Notation

Purity: 95.1% Procainamide labelled FA2G1 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 18.7 pmols FA2G1 glycan – Test performed 17 Jul 2015.



GU Value	Retention time (mins)	Area (µV*sec)	% area
5.22	10.646	12895	0.06
5.32	11.028	18627	0.08
5.74	12.525	38376	0.17
6.09	13.841	174439	0.78
6.18	14.180	119578	0.53
6.27	14.533	114339	0.51
6.34	14.775	16565	0.07
6.43	15.149	10687	0.05
6.55	15.631	15573096	69.56
6.68	16.124	5807626	25.94
6.79	16.565	238179	1.06
6.94	17.160	108522	0.48
7.09	17.788	37913	0.17
7.48	19.338	117533	0.52

Figure 1: HILIC HPLC profile of Procainamide labelled FA2G1 glycan (see method conditions below) (Cat. #: CPROC-FA2G1-01, Batch B56U-01).

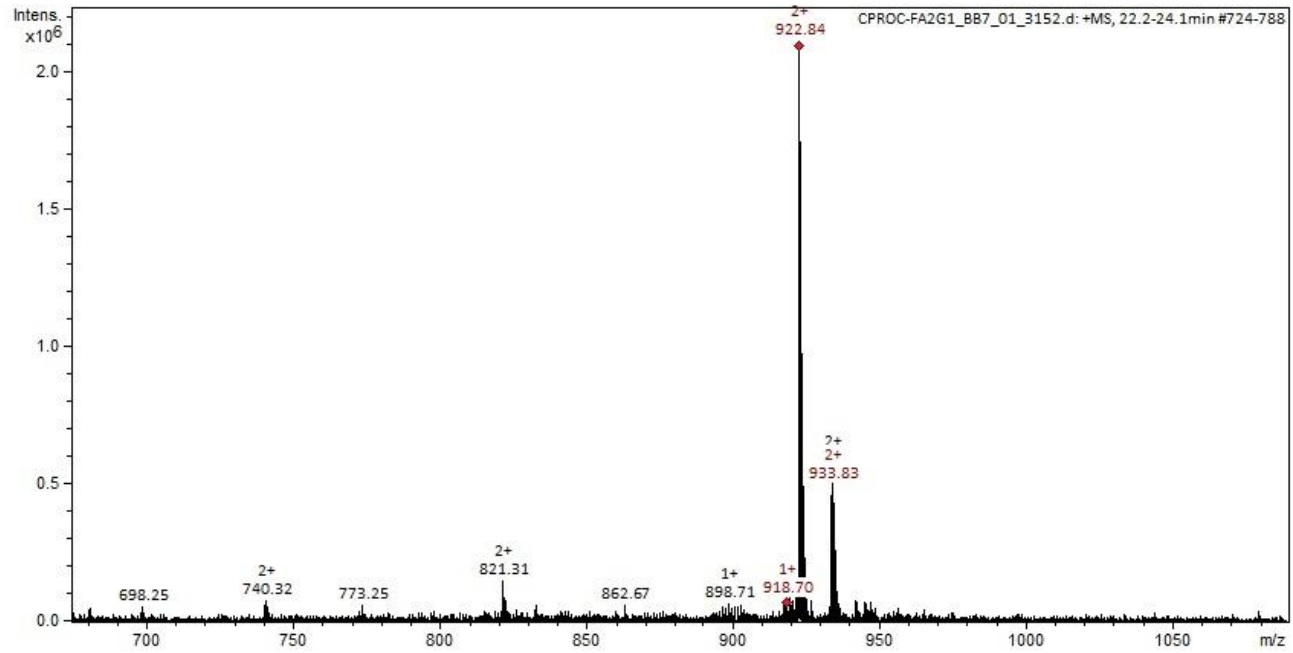


Figure 2: Positive ion mass spec analysis of labelled Glycan Sample.
Main peak at m/z 922.8 conforms to expected $[M+H]^{2+}$ mass. No significant unlabelled glycan peak present. (Cat. #: CPROC-FA2G1-01, Batch B56U-01).

Procainamide peaks seen above, eluted at 15.6 and 16.1 minutes, under the following conditions:

Column: **Waters BEH Glycan 1.7µm column (150mm)**

Temperature: 60 °C

Solvent A: 50mM ammonium formate pH 4.4 Solvent B: 100 % acetonitrile

Gradient:

Time (min)	%B	Flow (ml/min)
0.0	76.0	0.40
55.30	40.0	0.25
57.50	40.0	0.25
59.5	76.0	0.25
65.50	76.0	0.25
66.50	76.0	0.40
70.00	76.0	0.40

Detector: Dionex Ultimate FLD-3000 Excitation wavelength: 310 nm Emission wavelength: 370 nm

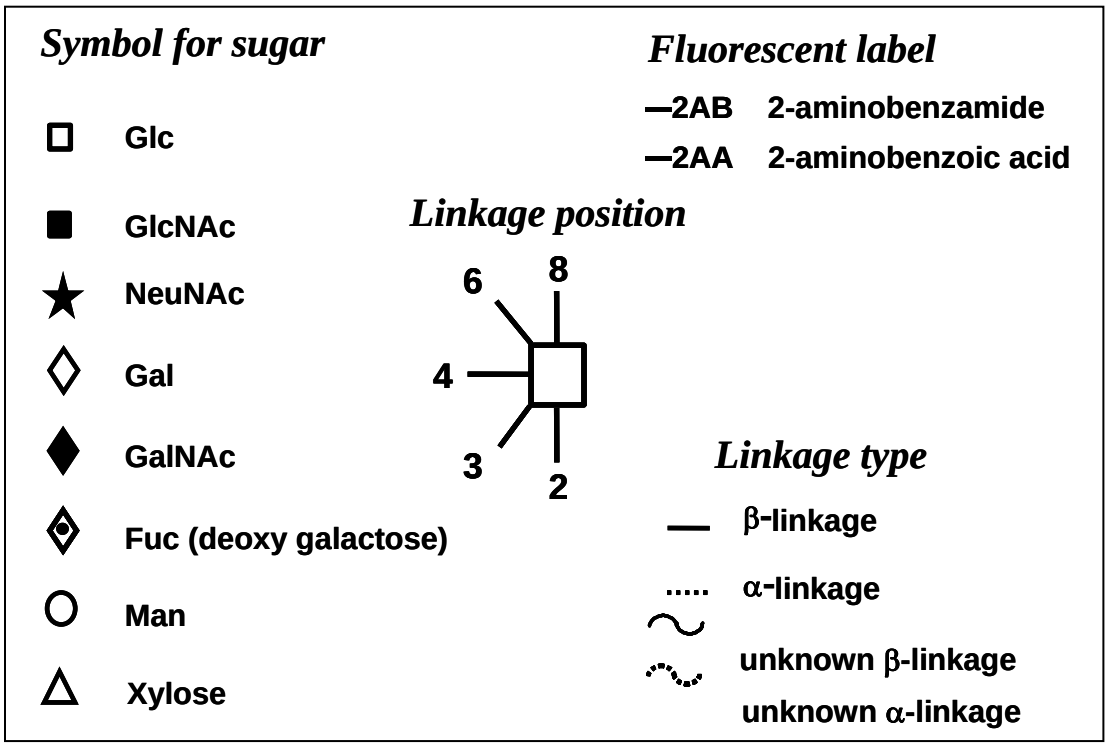


Figure 2: GlycoBase glycan structure key.