|                     | Theoretical mass G0F-2Lys | Theoretical mass drug bank G0F-2Lys | Observed mass | △ mass | △ mass drug bank |
|---------------------|---------------------------|------------------------------------|---------------|--------|------------------|
| **1. Native**       |                           |                                    |               |        |                  |
| F(ab')2             | 95838.97                  | 95859.05                           | 95815.70      | 23.27  | 43.35            |
| Fc/2                | 25216.10                  | 25216.10                           | 23975.80      | 1240.30| 1240.30          |
|                     | 146235.13                 | 146255.21                          | 145752.20     | 482.93 | 503.01           |
| **2. Ides treat**   |                           |                                    |               |        |                  |
| Fc/2                | 25216.10                  | 25216.10                           | 24989.80      | 226.30 | 226.30           |
|                     | 145752.20                 |                                    |               |        |                  |

Supplementary Table S1. Intact mass analysis for glycan structure of CHO glyco-delete IgG4 nivolumab