### Supporting Information

**S1 Table. Bet v 1a residues affected from addition of flavonoids with CSPs showing ∆δnorm > 0.08 ppm.**

Flavonoids were stepwise added to a final excess of up to 17-fold to 100 µM of 15N-labelled Bet v 1a. The ∆δnorm-values were determined with equation 2. Kd values for flavonoid binding were determined with NMRViewJ [89].

n.a.: Data could not be analysed. Int. Ex.: Intermediate exchange

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Flavone** | **Naringenine** | **Fisetin** | **Quercetin** | **Myricetin** |
| Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) |
| E6 | n.a. | T10 | 11.5±3.2 | T10 | 36.8±7.1 | T10 | 36.8±7.1 | T10 | Int. Ex.  |
| T7 | 140.3±41.6 | A15 | 7.3±4.0 | S11 | 18.6±7.6 | A15 | 11.1±8.3 | A15 | 11.6±5.5 |
| T10 | 118.5±5.6 | F22 | 80.3±20.6 | A15 | 28.6±2.6 | G89 | 21.6±3.6 | G26 | Int. Ex.  |
| A15 | 19.0±4.9 | G26 | n.a. | G26 | n.a. | K115 | 18.6±4.3 | I38 | Int. Ex.  |
| L24 | 65.1±7.9 | F64 | 10.4±4.2 | G89 | 17.4±3.8 | K137 | Int. Ex. | S39 | 26.9±13.3 |
| G26 | 64.4±11.3 | K68 | 59.3±0.9 | I91 | 16.8±5.7 | E138 | Int. Ex. | E73 | Int. Ex.  |
| A27 | 57.9±13.8 | R70 | 12.5±5.1 | I102 | 18.2±3.7 | G140 | Int. Ex. | Y81 | Int. Ex.  |
| F30 | n.a. | Y83 | 12.0±5.3 | K115 | 39.4±6.7 | R145 | 69.1±18.8 | N82 | Int. Ex.  |
| A34 | 41.2±2.8 | G89 | 32.5±4.2 | S117 | 72.5±15.4 |  |  | G89 | 5.0±2.2 |
| F64 | 5.9±1.1 | I102 | 39.5±8.5 | S136 | 16.1±3.8 |  |  | K115 | Int. Ex.  |
| G89 | 21.6±3.6 | K115 | 30.7±8.6 | K137 | n.a. |  |  | S136 | Int. Ex. |
| I102 | 29.9±3.8 | S117 | n.a. | E138 | 53.5±19.3 |  |  | K137 | Int. Ex. |
| K115 | 143.1±39.3 | K137 | 12.9±3.2 | G140 | Int. Ex. |  |  | E138 | Int. Ex.  |
| S117 | 60.5±11.8 | E138 | 32.6±15.5 | L143 | n.a. |  |  | G140 | Int. Ex. |
| V128 | n.a. | G140 | Int. Ex. | L144 | n.a. |  |  | T142 | n.d |
| V133 | 47.2±8.4 | E141 | n.a. | R145 | 48.0±8.6 |  |  | L143 | n.d |
| S136 | n.a. | T142 | n.d |  |  |  |  | R145 | n.a. |
| E138 | n.a. | L143 | n.d |  |  |  |  |  |  |
| M139 | n.a. | L144 | n.a. |  |  |  |  |  |  |
| E141 | 142.5±38.0 | R145 | n.d |  |  |  |  |  |  |
| T142 | n.a. |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Q3OGlc** | **Q3OGal** | **Q3OS** |
| Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) | Residue | *K*d (*µ*M) |
| T10 | 357.3±24.0 | F22 | Int. Ex. | F22 | Int./Slow Ex. |
| G26 | 259.2±5.6 | I23 | Int. Ex.  | L29 | Int./Slow Ex. |
| G89 | 285.0±30.2 | G26 | Int. Ex. | I38 | Int./Slow Ex. |
| K137 | Int. Ex. | K54 | Int. Ex. | K55 | Int./Slow Ex. |
| E138 | Int. Ex. | F64 | Int. Ex.  | R70 | Int./Slow Ex. |
| G140 | Int. Ex. | R70 | Int. Ex. | E73 | Int./Slow Ex. |
| T142 | 252.1±42.0 | E73 | Int. Ex.  | V74 | Int./Slow Ex. |
|  |  | G92 | Int. Ex.  | N82 | Int./Slow Ex. |
|  |  | D93 | Int. Ex. | S84 | Int./Slow Ex. |
|  |  | S136 | Int. Ex. | V85 | Int./Slow Ex. |
|  |  | K137 | Int. Ex.  | K115 | Int./Slow Ex. |
|  |  | E138 | Int. Ex. | Y120 | Int./Slow Ex. |
|  |  | G140 | Int. Ex.  | K137 | Int./Slow Ex. |
|  |  | E141 | Int. Ex. | E138 | Int./Slow Ex. |
|  |  | T142 | n.a. | G140 | Int./Slow Ex. |
|  |  | L144 | Int. Ex.  | L144 | Int./Slow Ex. |
|  |  | V147 | n.a. |  |  |