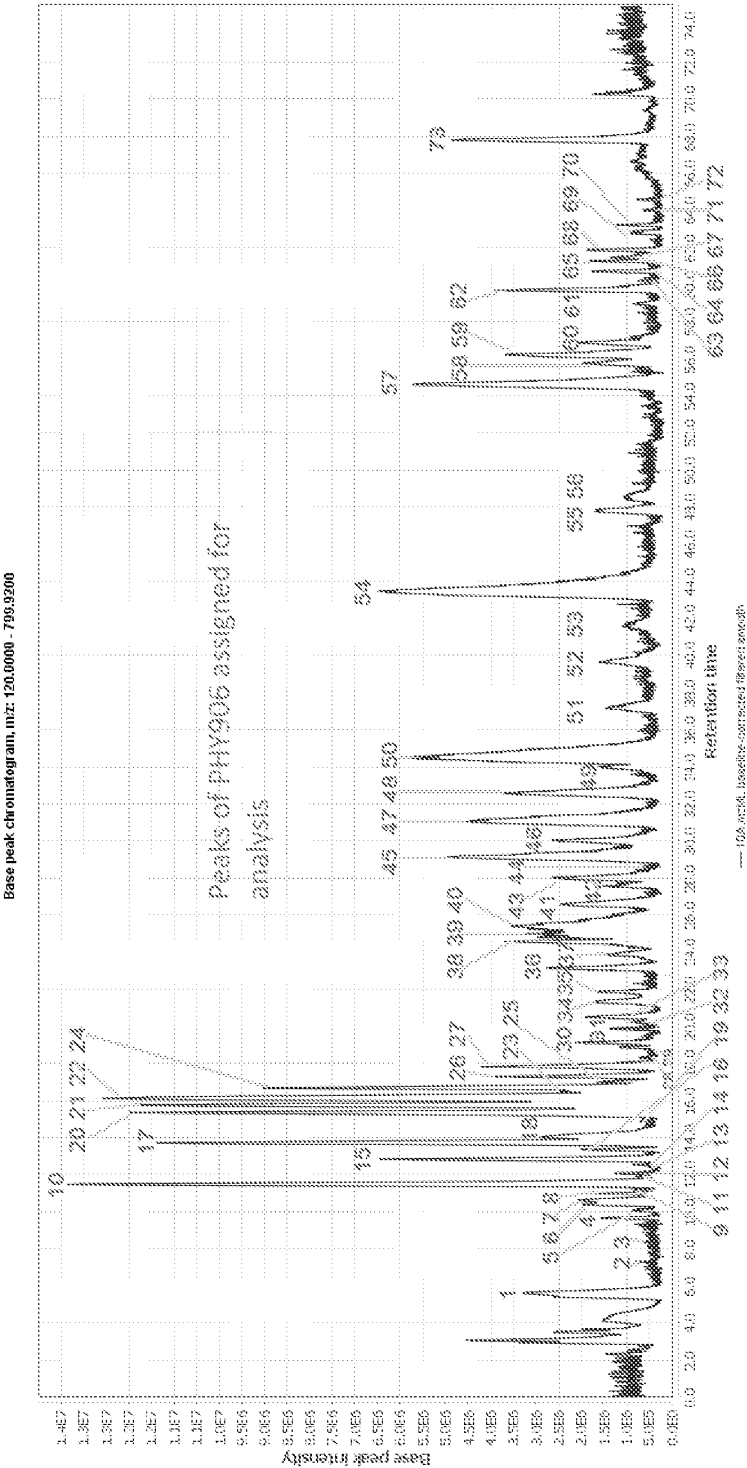


FIG. 1A

## In vivo activities of PHY906

| Batch | Enhancement<br>of CPT11<br>action | Body weight<br>protection |
|-------|-----------------------------------|---------------------------|
| 6     | ++                                | ++                        |
| 10    | ++                                | ++                        |
| 11    | ++                                | ++                        |
| F     | +                                 | -                         |

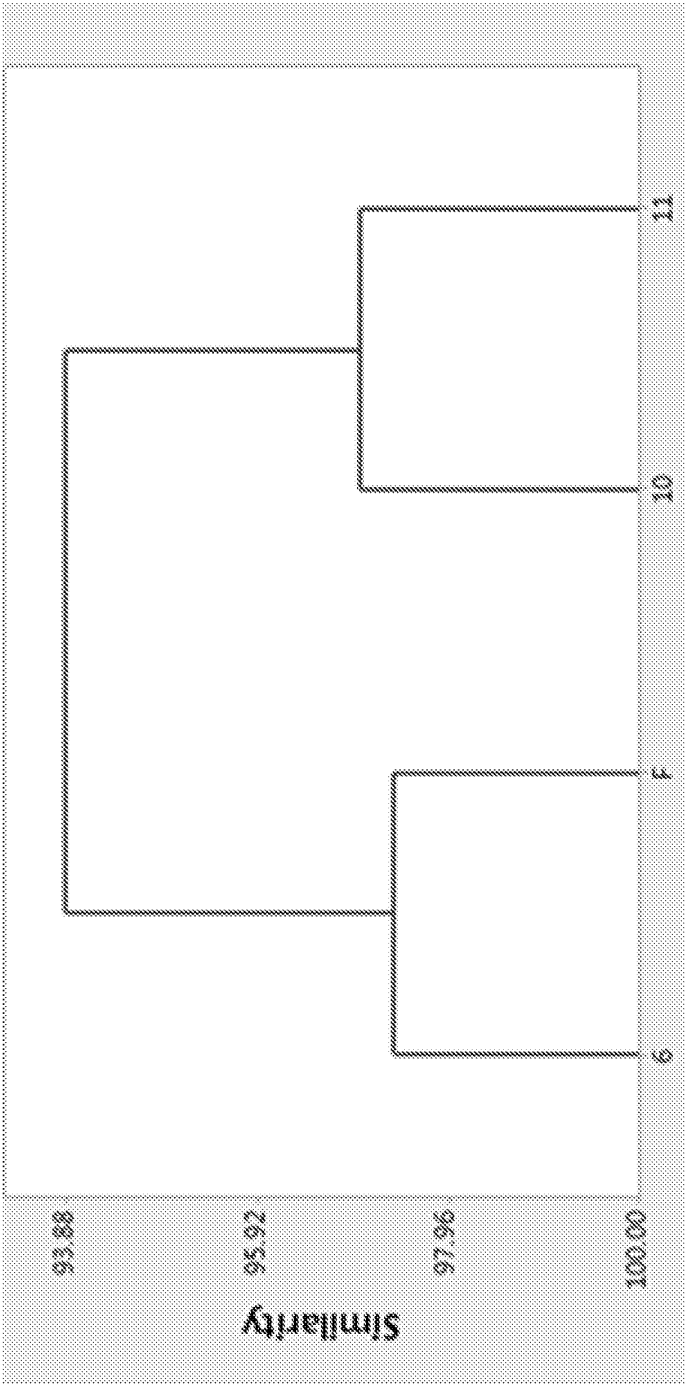
FIG. 1B



**FIG. 1C**  
**Similarity based on chemical profiles**

| <b>similarity</b> | <b>6</b> | <b>10</b> | <b>11</b> | <b>F</b> |
|-------------------|----------|-----------|-----------|----------|
| PHY906-6          | 1        | 0.93      | 0.935     | 0.958    |
| PHY906-10         | 0.93     | 1         | 0.954     | 0.951    |
| PHY906-11         | 0.935    | 0.954     | 1         | 0.911    |
| F                 | 0.958    | 0.951     | 0.911     | 1        |

**FIG. 1D**  
**Clustering analysis based on chemical profiles**



PHY906-6      F      PHY906-10      PHY906-11

FIG. 2A

Signal Transduction Activity Response

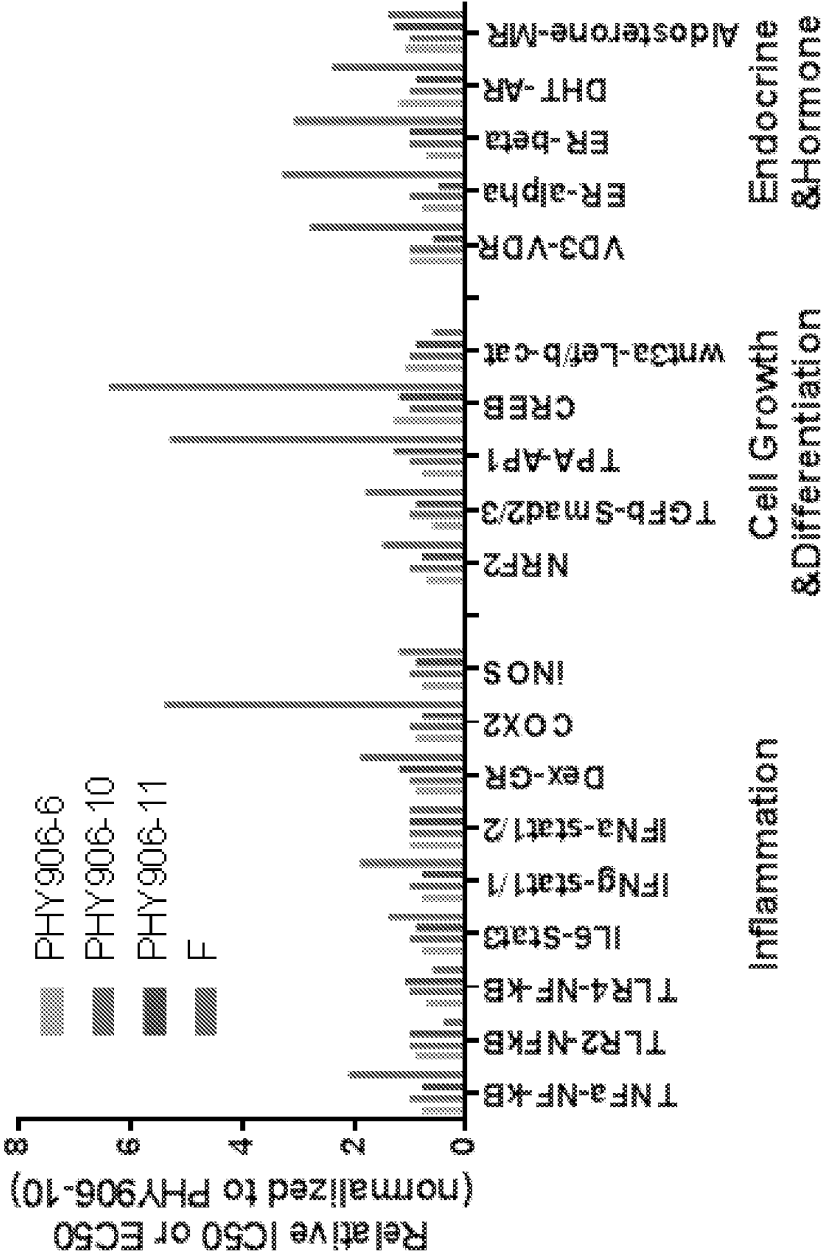
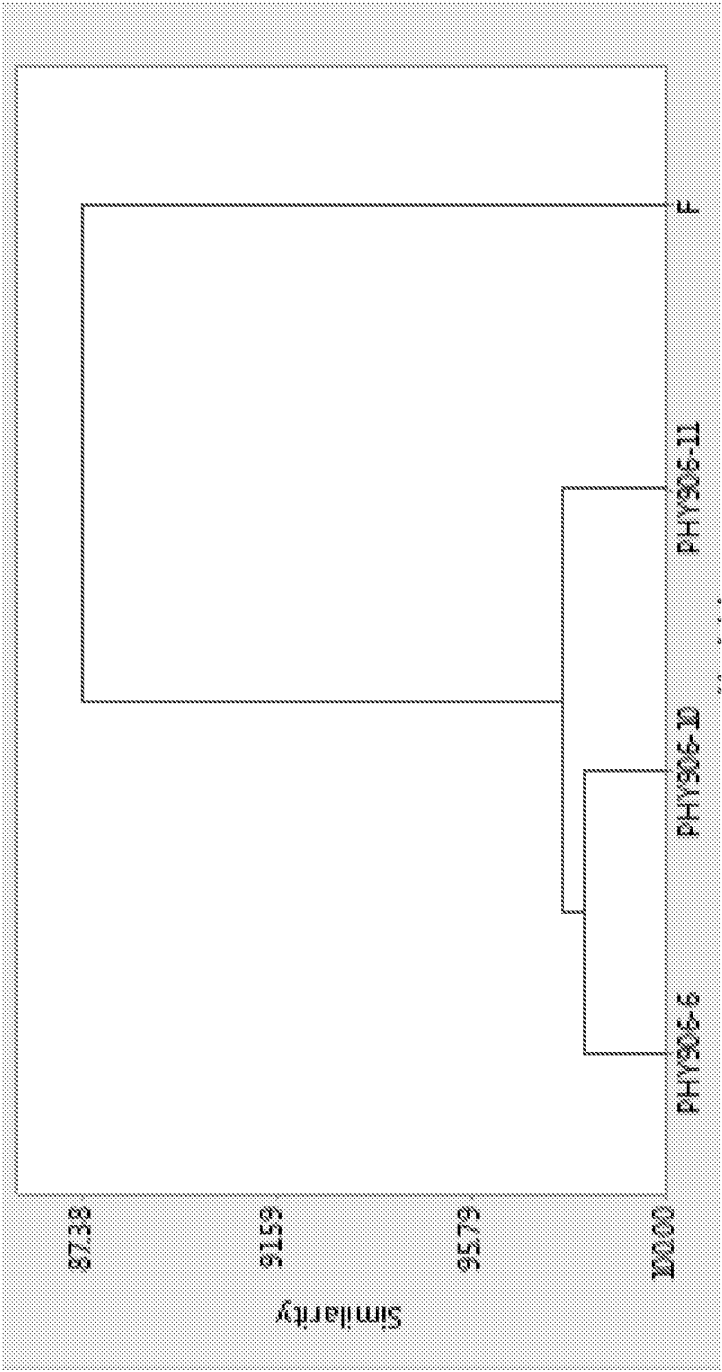


FIG. 2B

| Correlation coefficient of<br>different batchs of PHY906 close to 1 |          |           |           |       |
|---------------------------------------------------------------------|----------|-----------|-----------|-------|
|                                                                     | PHY906-6 | PHY906-10 | PHY906-11 | F     |
| PHY906-6                                                            | 1        | 0.964     | 0.955     | 0.775 |
| PHY906-10                                                           | 0.964    | 1         | 0.959     | 0.840 |
| PHY906-11                                                           | 0.955    | 0.959     | 1         | 0.747 |
| F                                                                   | 0.775    | 0.840     | 0.747     | 1     |

FIG. 2C



PHY906-6   PHY906-10   PHY906-11   F

FIG. 3A

|                       | PHY906-6       | PHY906-10      | PHY906-11      | F             |
|-----------------------|----------------|----------------|----------------|---------------|
|                       | AVE $\pm$ SD   | AVE $\pm$ SD   | AVE $\pm$ SD   | AVE $\pm$ SD  |
| Inflammation          |                |                |                |               |
| ICAM                  | 2.1 $\pm$ 0.4  | 1.6 $\pm$ 0.2  | 1.6 $\pm$ 0.2  | 0.9 $\pm$ 0.1 |
| IRF5                  | 1.9 $\pm$ 0.1  | 1.7 $\pm$ 0.1  | 1.7 $\pm$ 0.2  | 1.2 $\pm$ 0.3 |
| Anti-oxidation        |                |                |                |               |
| AKR1C1                | 6.4 $\pm$ 0.8  | 5.4 $\pm$ 0.9  | 5.3 $\pm$ 0.8  | 2.8 $\pm$ 1.2 |
| HO1                   | 1.7 $\pm$ 0.2  | 1.9 $\pm$ 0.2  | 1.6 $\pm$ 0.2  | 1.7 $\pm$ 0.2 |
| GCLC                  | 5.1 $\pm$ 0.1  | 3.9 $\pm$ 0.2  | 4.0 $\pm$ 0.7  | 2.1 $\pm$ 0.7 |
| GCLM                  | 9.3 $\pm$ 0.7  | 7.2 $\pm$ 0.4  | 7.9 $\pm$ 1.1  | 4.3 $\pm$ 1.3 |
| Growth                |                |                |                |               |
| Axin2                 | 0.9 $\pm$ 0.3  | 0.8 $\pm$ 0.4  | 0.8 $\pm$ 0.2  | 0.6 $\pm$ 0.3 |
| GDF15                 | 35.9 $\pm$ 5.8 | 20.4 $\pm$ 1.5 | 20.5 $\pm$ 0.5 | 6.1 $\pm$ 2.5 |
| IGFBP3                | 1.6 $\pm$ 0.8  | 1.5 $\pm$ 0.5  | 1.1 $\pm$ 0.1  | 1.5 $\pm$ 0.4 |
| OKL38                 | 6.0 $\pm$ 0.7  | 5.8 $\pm$ 0.7  | 5.7 $\pm$ 0.6  | 3.7 $\pm$ 0.2 |
| PIM1                  | 15.2 $\pm$ 2.7 | 7.4 $\pm$ 2.3  | 9.1 $\pm$ 4.1  | 3.3 $\pm$ 1.8 |
| SERTAD                | 3.0 $\pm$ 0.2  | 2.0 $\pm$ 0.2  | 2.2 $\pm$ 0.5  | 1.1 $\pm$ 0.3 |
| SOS1                  | 6.4 $\pm$ 1.1  | 9.8 $\pm$ 1.4  | 8.9 $\pm$ 1.5  | 9.1 $\pm$ 1.9 |
| Metabolism            |                |                |                |               |
| BHMT2                 | 1.5 $\pm$ 0.4  | 1.9 $\pm$ 0.4  | 1.8 $\pm$ 0.4  | 1.5 $\pm$ 0.3 |
| CPT1A                 | 2.0 $\pm$ 0.6  | 2.2 $\pm$ 0.4  | 2.1 $\pm$ 0.4  | 1.7 $\pm$ 0.5 |
| SLC7A11               | 11.6 $\pm$ 3.2 | 6.3 $\pm$ 1.3  | 6.6 $\pm$ 2.0  | 2.4 $\pm$ 0.6 |
| Cell-cell interaction |                |                |                |               |
| CD24                  | 0.4 $\pm$ 0.2  | 0.3 $\pm$ 0.1  | 0.4 $\pm$ 0.1  | 0.3 $\pm$ 0.1 |
| and cytoskeleton      |                |                |                |               |
| EMP2                  | 2.0 $\pm$ 0.3  | 2.3 $\pm$ 0.4  | 2.2 $\pm$ 0.6  | 1.5 $\pm$ 1.0 |
| KRT23                 | 2.0 $\pm$ 0.1  | 2.0 $\pm$ 0.1  | 1.9 $\pm$ 0.2  | 1.0 $\pm$ 0.3 |

FIG. 3B

Correlation analysis

|           | PHY906-6 | PHY906-10 | PHY906-11 | F     |
|-----------|----------|-----------|-----------|-------|
| PHY906-6  | 1        | 0.949     | 0.966     | 0.585 |
| PHY906-10 | 0.949    | 1         | 0.995     | 0.798 |
| PHY906-11 | 0.966    | 0.995     | 1         | 0.768 |
| F         | 0.585    | 0.798     | 0.768     | 1     |

**FIG. 3C**

