Supplementary Material

Chemistry and hypoglycemic activity of novel GPR119 agonist ZB-16

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Supplement 1. Structures and activities of synthesized compounds

 GPR119 agonistic activity of test compounds

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| **ID** | **Structure** | **Maximum tested concentration, μM** | **ЕC50, M** |
| C301-5917 |  | 30 | 2.74\*10-6 |
| C530-0289 |  | 30 | 1.17\*10-5 |
| C530-0291 |  | 30 | 2.42\*10-6 |
| C530-0306 |  | 30 | 1.94\*10-5 |
| C530-0320 |  | 30 | 2.20\*10-6 |
| C530-0339 |  | 30 | 1.07\*10-5 |
| C530-0358 |  | 30 | 3.10\*10-6 |
| C530-0389 |  | 30 | 3.30\*10-6 |
| D216-0545 |  | 30 | 2.75\*10-6 |
| D469-0068 |  | 30 | 4.31\*10-7 |
| K205-1693 |  | 30 | 5.37\*10-7 |
| C301-5947A |  | 30 | 5.87\*10-7 |
| C530-0315 |  | 30 | 7.13\*10-8 |
| C530-0335 |  | 30 | 6.03\*10-7 |
| C530-0386 |  | 30 | 7.58\*10-7 |
| ZB-10 |  | 30 | 4.22\*10-7 |
| ZB-12 |  | 30 | 4.05\*10-6 |
| ZB-14 |  | 30 | 4.49\*10-7 |