**Table 1.** Structural data of the synthesized compounds

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Compound** | **R** | **Melting****Point (ºC)** | **Empirical Formula** | **Molecular****Weight** |
|  |
| **1** | CH3 | 223-225 | C24H25NO3 | 375.47 |
| **2** | C2H5 | 210-212 | C25H27NO3 | 389.49 |
| **3** | CH(CH3)2 | 211-213 | C26H29NO3 | 403.52 |
| **4** | CH2CH(CH3)2 | 170-172 | C27H31NO3 | 417.55 |
| **5** | C(CH3)3 | 243-245 | C27H31NO3 | 417.55 |
| **6** | CH2CH2OCH3 | 197-199 | C26H29NO4 | 419.52 |
| **7** | CH2CH2OCOC(=CH2)CH3 | 155-157 | C29H31NO5 | 473.57 |
| **8** | CH2C6H5 | 167-169 | C30H29NO3 | 451.57 |
|  |
| **9** | CH3 | 259-261 | C24H25NO3 | 375.47 |
| **10** | C2H5 | 244-246 | C25H27NO3 | 389.49 |
| **11** | CH(CH3)2 | 258-260 | C26H29NO3 | 403.52 |
| **12** | CH2CH(CH3)2 | 291-293 | C27H31NO3 | 417.55 |
| **13** | C(CH3)3 | 267-269 | C27H31NO3 | 417.55 |
| **14** | CH2CH2OCH3 | 176-178 | C26H29NO4 | 419.52 |
| **15** | CH2CH2OCOC(=CH2)CH3 | 156-158 | C29H31NO5 | 473.57 |
| **16** | CH2C6H5 | 173-175 | C30H29NO3 | 451.57 |

**Table 2.** Maximum relaxant responses (Emax) and pD2 values of the compounds, nifedipine and DMSO on strips of rabbit gasric fundus smooth muscle.

|  |  |  |
| --- | --- | --- |
| **Compound**  | **Emax** | **pD2** |
| **1** \* |  81.20 ± 10.26 | 5.42 ± 0.71 |
| **2** \* |  82.78 ± 8.98 | 5.53 ± 0.65 |
| **3** \* |  77.42 ± 4.71 | 4.63 ± 0.37 |
| **4** \* |  45.52 ± 9.10 | 4.92 ± 0.66 |
| **5** \* |  53.32 ± 7.53 | 5.00 ± 0.57 |
| **6** \* |  93.54 ± 9.31 | 5.56 ± 0.67 |
| **7** \* |  91.83 ± 5.29 | 4.95 ± 0.42 |
| **8** \* |  43.17 ± 5.97 | 5.39 ± 0.47 |
| **9** \* |  63.93 ± 5.90 | 4.52 ± 0.47 |
| **10** \* |  42.30 ± 4.67 | 5.31 ± 0.37 |
| **11** \* |  50.42 ± 10.01 | 4.37 ± 0.70 |
| **12** \* |  36.88 ± 5.96 | 6.09 ± 0.47 |
| **13** \* |  48.90 ± 10.41 | 5.37 ± 0.71 |
| **14** \* |  92.68 ± 8.15 | 4.67 ± 0.61 |
| **15** \* |  91.50 ± 5.94 | 5.07 ± 0.47 |
| **16** \* |  21.94 ± 3.68 | 6.34 ± 0.26 |
| **Nifedipine** | 100.00 ± 2.18 | 8.33 ± 0.04 |
| **DMSO** | 11.35 ± 2.25 | 6.31 ± 0.05 |

Relaxation is expressed as a percentage of the precontraction induced by 2,5 mM Ca2+. The negative logarithm of the concentration for the half-maximal response (pD2) and Emax values represent mean value ± S.E.M.

\* p < 0.05 compared with control responces, n = 6