**Supplementary files:**

**Table – S1: Antibacterial activity [disc diffusion method] of hydrazone derivatives of 2-**

 **Thioxodihydropyrimidine-2-dione.**

STANDARD: \*CIPROFLOXACIN CONTROL: DMSO

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***COMPOUND NAME*** | ***Bacillus subtilis*** | ***Escherichia coli*** | ***Pseudomonas aeruginosa*** | ***Staphylococcus aureus*** | ***Streptococcus pyogenes*** |
| **Zone of inhibition (mm)** | **Ciprofloxacin\*** | 32 | *30* | 34 | 32 | 32 |
| **PHTTO** | 13 | 16 | 12 | 12 | 14 |
| **DNPHTTO** | 17 | *14* | 17 | 16 | 17 |
| **OTHHPYHC** | 14 | *16* | 16 | - | 19 |
| **OTTHPYHCT** | 14 | *12* | 15 | - | 12 |
| **OTTHPYBH** | 16 | *11* | 28 | 26 | 24 |

**Table – S2: Antifungal activity [disc diffusion method] of hydrazone derivatives of 2-**

 **Thioxodihydropyrimidine-2-dione.**

**Standard: \*Amphotericin-B Control: DMSO**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***COMPOUND NAME*** | ***Aspergillus flavus*** | ***Aspergillus niger*** | ***Fusarium oxysporum*** | ***Penicillim******chryogenum*** | ***Trigoderma******veride*** |
| **Zone of inhibition (mm)** | **Amphotericin-B** | 22 | 20 | 18 | 30 | 28 |
| **PHTTO** | - | 07 | - | 14 | - |
| **DNPHTTO** | - | *-* | - | 10 | 10 |
| **OTHHPYHC** | 09 | *12* | 09 | 10 | 14 |
| **OTTHPYHCT** | 02 | *03* | - | - | - |
| **OTTHPYBH** | - | *-* | - | - | 11 |

**TABLE-S3: Cytotoxicity Analysis of Hydrazone Derivatives of 2-**

 **Thioxodihydropyrimidine-2-Dione.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sample | Concentration | Control | Sample | % of viability | % of toxicity | IC50 value |
|  | Control | 1.121 | 1.121 | 100 | 0 |  |
| PHTTO | 50µg | 1.121 | 1.009 | 90.00 | 9.99 | 213.03 |
|  | 100µg | 1.121 | 0.912 | 81.35 | 18.64 |  |
|  | 150µg | 1.121 | 0.853 | 76.09 | 23.90 |  |
| DNPHTTO | 50µg | 1.121 | 0.912 | 81.35 | 18.64 | 181.01 |
|  | 100µg | 1.121 | 0.861 | 76.80 | 23.19 |  |
|  | 150µg | 1.121 | 0.731 | 65.20 | 34.79 |  |
| OTHHPYHC | 50µg | 1.121 | 0.951 | 84.83 | 15.16 | 173.8 |
|  | 100µg | 1.121 | 0.833 | 74.30 | 25.69 |  |
|  | 150µg | 1.121 | 0.715 | 63.78 | 36.21 |  |
| OTTHPYHCT | 50µg | 1.121 | 0.9001 | 80.29 | 19.70 | 171.41 |
|  | 100µg | 1.121 | 0.831 | 74.13 | 25.86 |  |
|  | 150µg | 1.121 | 0.711 | 63.42 | 36.57 |  |
| OTTHPYBH | 50µg | 1.121 | 1.004 | 89.56 | 10.43 | 204.3 |
|  | 100µg | 1.121 | 0.902 | 80.46 | 19.54 |  |
|  | 150µg | 1.121 | 0.834 | 74.39 | 25.61 |  |