

Table S1. Number of replicated experiments with triplicated measurements performed for the evaluation of MIC

| Species | Strain | Origin | Medium | OD | | RLU | |
|------------------------|----------------|------------------------|-------------|-------------|------------------|-------------|------------------|
| | | | | MIC (µg/mL) | Replicated tests | MIC (µg/mL) | Replicated tests |
| <i>S. aureus</i> | ATCC25923 | Reference strain | MHB II 100% | >500 | 2 times (n=6) | >500 | 1 time (n=3) |
| | | | MHB 20% | 7.8 | 2 time (n=6) | 7.8 | 1 time (n=3) |
| | <i>cra4030</i> | Clinical isolate (IOR) | MHB II 100% | >500 | 2 times (n=6) | >500 | 1 time (n=3) |
| | | | MHB 20% | 7.8 | 1 time (n=3) | 15.6 | 1 time (n=3) |
| <i>S. epidermidis</i> | <i>cra4034</i> | Clinical isolate (IOR) | MHB II 100% | 250 | 4 times (n=12) | 250 | 1 time (n=3) |
| | | | MHB 20% | 3.9 | 1 time (n=3) | 7.8 | 1 time (n=3) |
| | <i>cra4029</i> | Clinical isolate (IOR) | MHB II 100% | 250-500 | 2 times (n=6) | 250 | 1 time (n=3) |
| | | | MHB 20% | ND | 2 times (n=6) | 7.8 | 2 times (n=6) |
| <i>S. warneri</i> | <i>cra3882</i> | Clinical isolate (IOR) | MHB II 100% | 31.3 | 1 time (n=3) | 62.5 | 1 time (n=3) |
| | | | MHB 20% | ND | 1 time (n=3) | 7.8 | 1 time (n=3) |
| <i>S. lugdunensis</i> | <i>cra4011</i> | Clinical isolate (IOR) | MHB II 100% | 62.5 | 1 time (n=3) | 62.5 | 1 time (n=3) |
| | | | MHB 20% | ND | 2 times (n=6) | ND | 2 times (n=6) |
| <i>S. haemolyticus</i> | <i>cra3885</i> | Clinical isolate (IOR) | MHB II 100% | 62.5 | 1 time (n=3) | 62.5 | 1 time (n=3) |
| | | | MHB 20% | ND | 1 time (n=3) | ND | 1 time (n=3) |
| <i>E. coli</i> | <i>cra4038</i> | Clinical isolate (IOR) | MHB II 100% | >500 | 1 time (n=3) | >500 | 1 time (n=3) |
| | | | MHB 20% | 15.6 | 1 time (n=3) | 31.3 | 1 time (n=3) |
| <i>P. aeruginosa</i> | <i>cra4010</i> | Clinical isolate (IOR) | MHB II 100% | >500 | 3 times (n=9) | >500 | 1 time (n=3) |
| | | | MHB 20% | 15.6-31.3* | 3 times (n=9) | 31.3-62.5** | 3 times (n=9) |
| | <i>cra4004</i> | Clinical isolate (IOR) | MHB II 100% | >500 | 1 time (n=3) | >500 | 1 time (n=3) |
| | | | MHB 20% | 31.3 | 1 time (n=3) | 31.3 | 1 time (n=3) |

* Two experiments provided a MIC of 15.6 and an experiment of 31.3 µg/mL; ** Two experiments provided a MIC of 31.3 and an experiment of 62.5 µg/mL.

Table S2. Experimental data from the 3 independent experiments on the cytotoxicity of Dadapin-1 in the presence of FBS: luminescence readings at different Dadapin-1 concentrations.

| Well | Row | [Dadapin-1](ug/mL) | Date | Sample (RLU) | Blank (RLU) | Sample-Blank | Cell activity (%) |
|------|-----|--------------------|------------|--------------|-------------|--------------|-------------------|
| 1 | A | 450.0 | 23.09.2022 | 7699850 | 449.5 | 7699400.5 | 81.08 |
| 1 | B | 450.0 | 23.09.2022 | 8156380 | 449.5 | 8155930.5 | 85.89 |
| 1 | C | 450.0 | 23.09.2022 | 8657350 | 449.5 | 8656900.5 | 91.16 |
| 2 | A | 225.0 | 23.09.2022 | 7874880 | 449.5 | 7874430.5 | 82.92 |
| 2 | B | 225.0 | 23.09.2022 | 8659550 | 449.5 | 8659100.5 | 91.19 |
| 2 | C | 225.0 | 23.09.2022 | 9658150 | 449.5 | 9657700.5 | 101.70 |
| 3 | A | 112.5 | 23.09.2022 | 9978880 | 449.5 | 9978430.5 | 105.08 |
| 3 | B | 112.5 | 23.09.2022 | 10593900 | 449.5 | 10593450.5 | 111.56 |
| 3 | C | 112.5 | 23.09.2022 | 11188100 | 449.5 | 11187650.5 | 117.81 |
| 4 | A | 56.3 | 23.09.2022 | 10093000 | 449.5 | 10092550.5 | 106.28 |
| 4 | B | 56.3 | 23.09.2022 | 10964300 | 449.5 | 10963850.5 | 115.46 |
| 4 | C | 56.3 | 23.09.2022 | 11611400 | 449.5 | 11610950.5 | 122.27 |
| 5 | A | 28.1 | 23.09.2022 | 9981410 | 449.5 | 9980960.5 | 105.11 |
| 5 | B | 28.1 | 23.09.2022 | 10859300 | 449.5 | 10858850.5 | 114.35 |
| 5 | C | 28.1 | 23.09.2022 | 10607600 | 449.5 | 10607150.5 | 111.70 |
| 6 | A | 14.1 | 23.09.2022 | 10469000 | 449.5 | 10468550.5 | 110.24 |
| 6 | B | 14.1 | 23.09.2022 | 10034900 | 449.5 | 10034450.5 | 105.67 |
| 6 | C | 14.1 | 23.09.2022 | 10681600 | 449.5 | 10681150.5 | 112.48 |
| 7 | A | 7.0 | 23.09.2022 | 10699600 | 449.5 | 10699150.5 | 112.67 |
| 7 | B | 7.0 | 23.09.2022 | 10273600 | 449.5 | 10273150.5 | 108.18 |
| 7 | C | 7.0 | 23.09.2022 | 10782300 | 449.5 | 10781850.5 | 113.54 |
| 8 | A | 3.5 | 23.09.2022 | 9820690 | 449.5 | 9820240.5 | 103.41 |
| 8 | B | 3.5 | 23.09.2022 | 10556900 | 449.5 | 10556450.5 | 111.17 |
| 8 | C | 3.5 | 23.09.2022 | 11321400 | 449.5 | 11320950.5 | 119.22 |

| | | | | | | | |
|----|---|-------|------------|----------|-------|------------|--------|
| 9 | A | 1.8 | 23.09.2022 | 8409810 | 449.5 | 8409360.5 | 88.56 |
| 9 | B | 1.8 | 23.09.2022 | 9987160 | 449.5 | 9986710.5 | 105.17 |
| 9 | C | 1.8 | 23.09.2022 | 11129000 | 449.5 | 11128550.5 | 117.19 |
| 10 | A | 0.9 | 23.09.2022 | 10197100 | 449.5 | 10196650.5 | 107.38 |
| 10 | B | 0.9 | 23.09.2022 | 10609700 | 449.5 | 10609250.5 | 111.72 |
| 10 | C | 0.9 | 23.09.2022 | 10895100 | 449.5 | 10894650.5 | 114.73 |
| 11 | A | 0.4 | 23.09.2022 | 9775350 | 449.5 | 9774900.5 | 102.94 |
| 11 | B | 0.4 | 23.09.2022 | 10654300 | 449.5 | 10653850.5 | 112.19 |
| 11 | C | 0.4 | 23.09.2022 | 10856900 | 449.5 | 10856450.5 | 114.33 |
| 12 | A | 0.2 | 23.09.2022 | 9709620 | 449.5 | 9709170.5 | 102.24 |
| 12 | B | 0.2 | 23.09.2022 | 9666490 | 449.5 | 9666040.5 | 101.79 |
| 12 | C | 0.2 | 23.09.2022 | 9870080 | 449.5 | 9869630.5 | 103.93 |
| 1 | A | 450 | 28.09.2022 | 10232900 | 635.5 | 10232264.5 | 81.63 |
| 1 | B | 450 | 28.09.2022 | 11395800 | 635.5 | 11395164.5 | 90.90 |
| 1 | C | 450 | 28.09.2022 | 9661990 | 635.5 | 9661354.5 | 77.07 |
| 2 | A | 225 | 28.09.2022 | 12632400 | 635.5 | 12631764.5 | 100.77 |
| 2 | B | 225 | 28.09.2022 | 13264400 | 635.5 | 13263764.5 | 105.81 |
| 2 | C | 225 | 28.09.2022 | 12324400 | 635.5 | 12323764.5 | 98.31 |
| 3 | A | 112.5 | 28.09.2022 | 14125700 | 635.5 | 14125064.5 | 112.68 |
| 3 | B | 112.5 | 28.09.2022 | 15375600 | 635.5 | 15374964.5 | 122.65 |
| 3 | C | 112.5 | 28.09.2022 | 14339200 | 635.5 | 14338564.5 | 114.38 |
| 4 | A | 56.25 | 28.09.2022 | 15047800 | 635.5 | 15047164.5 | 120.04 |
| 4 | B | 56.25 | 28.09.2022 | 15152600 | 635.5 | 15151964.5 | 120.87 |
| 4 | C | 56.25 | 28.09.2022 | 14575400 | 635.5 | 14574764.5 | 116.27 |
| 5 | A | 28.1 | 28.09.2022 | 14721200 | 635.5 | 14720564.5 | 117.43 |
| 5 | B | 28.1 | 28.09.2022 | 15346600 | 635.5 | 15345964.5 | 122.42 |
| 5 | C | 28.1 | 28.09.2022 | 14084900 | 635.5 | 14084264.5 | 112.36 |
| 6 | A | 14.1 | 28.09.2022 | 14600100 | 635.5 | 14599464.5 | 116.47 |

| | | | | | | | |
|----|---|-------|------------|----------|-------|------------|--------|
| 6 | B | 14.1 | 28.09.2022 | 15379400 | 635.5 | 15378764.5 | 122.68 |
| 6 | C | 14.1 | 28.09.2022 | 14640800 | 635.5 | 14640164.5 | 116.79 |
| 7 | A | 7.0 | 28.09.2022 | 14829000 | 635.5 | 14828364.5 | 118.29 |
| 7 | B | 7.0 | 28.09.2022 | 14630200 | 635.5 | 14629564.5 | 116.71 |
| 7 | C | 7.0 | 28.09.2022 | 14585500 | 635.5 | 14584864.5 | 116.35 |
| 8 | A | 3.5 | 28.09.2022 | 14585100 | 635.5 | 14584464.5 | 116.35 |
| 8 | B | 3.5 | 28.09.2022 | 14418500 | 635.5 | 14417864.5 | 115.02 |
| 8 | C | 3.5 | 28.09.2022 | 14513900 | 635.5 | 14513264.5 | 115.78 |
| 9 | A | 1.8 | 28.09.2022 | 14300700 | 635.5 | 14300064.5 | 114.08 |
| 9 | B | 1.8 | 28.09.2022 | 14722800 | 635.5 | 14722164.5 | 117.44 |
| 9 | C | 1.8 | 28.09.2022 | 14296000 | 635.5 | 14295364.5 | 114.04 |
| 10 | A | 0.9 | 28.09.2022 | 14952700 | 635.5 | 14952064.5 | 119.28 |
| 10 | B | 0.9 | 28.09.2022 | 15397900 | 635.5 | 15397264.5 | 122.83 |
| 10 | C | 0.9 | 28.09.2022 | 15109200 | 635.5 | 15108564.5 | 120.53 |
| 11 | A | 0.4 | 28.09.2022 | 14898500 | 635.5 | 14897864.5 | 118.85 |
| 11 | B | 0.4 | 28.09.2022 | 15016800 | 635.5 | 15016164.5 | 119.79 |
| 11 | C | 0.4 | 28.09.2022 | 14191400 | 635.5 | 14190764.5 | 113.21 |
| 12 | A | 0.2 | 28.09.2022 | 14147700 | 635.5 | 14147064.5 | 112.86 |
| 12 | B | 0.2 | 28.09.2022 | 13961000 | 635.5 | 13960364.5 | 111.37 |
| 12 | C | 0.2 | 28.09.2022 | 14535300 | 635.5 | 14534664.5 | 115.95 |
| 1 | A | 450 | 7.10.2022 | 9681560 | 640.0 | 9680920.0 | 75.67 |
| 1 | B | 450 | 7.10.2022 | 9685180 | 640.0 | 9684540.0 | 75.70 |
| 1 | C | 450 | 7.10.2022 | 9121050 | 640.0 | 9120410.0 | 71.29 |
| 2 | A | 225 | 7.10.2022 | 11618200 | 640.0 | 11617560.0 | 90.81 |
| 2 | B | 225 | 7.10.2022 | 10761800 | 640.0 | 10761160.0 | 84.11 |
| 2 | C | 225 | 7.10.2022 | 11327500 | 640.0 | 11326860.0 | 88.54 |
| 3 | A | 112.5 | 7.10.2022 | 13187500 | 640.0 | 13186860.0 | 103.07 |
| 3 | B | 112.5 | 7.10.2022 | 12799300 | 640.0 | 12798660.0 | 100.04 |

| | | | | | | | |
|----|---|-------|-----------|----------|-------|------------|--------|
| 3 | C | 112.5 | 7.10.2022 | 12620700 | 640.0 | 12620060.0 | 98.64 |
| 4 | A | 56.25 | 7.10.2022 | 13432300 | 640.0 | 13431660.0 | 104.99 |
| 4 | B | 56.25 | 7.10.2022 | 13311200 | 640.0 | 13310560.0 | 104.04 |
| 4 | C | 56.25 | 7.10.2022 | 13096900 | 640.0 | 13096260.0 | 102.37 |
| 5 | A | 28.1 | 7.10.2022 | 13934500 | 640.0 | 13933860.0 | 108.91 |
| 5 | B | 28.1 | 7.10.2022 | 13444300 | 640.0 | 13443660.0 | 105.08 |
| 5 | C | 28.1 | 7.10.2022 | 13338600 | 640.0 | 13337960.0 | 104.26 |
| 6 | A | 14.1 | 7.10.2022 | 13784100 | 640.0 | 13783460.0 | 107.74 |
| 6 | B | 14.1 | 7.10.2022 | 13382800 | 640.0 | 13382160.0 | 104.60 |
| 6 | C | 14.1 | 7.10.2022 | 13427600 | 640.0 | 13426960.0 | 104.95 |
| 7 | A | 7.0 | 7.10.2022 | 14397900 | 640.0 | 14397260.0 | 112.54 |
| 7 | B | 7.0 | 7.10.2022 | 13485900 | 640.0 | 13485260.0 | 105.41 |
| 7 | C | 7.0 | 7.10.2022 | 13216800 | 640.0 | 13216160.0 | 103.30 |
| 8 | A | 3.5 | 7.10.2022 | 13518100 | 640.0 | 13517460.0 | 105.66 |
| 8 | B | 3.5 | 7.10.2022 | 12980200 | 640.0 | 12979560.0 | 101.45 |
| 8 | C | 3.5 | 7.10.2022 | 13139300 | 640.0 | 13138660.0 | 102.70 |
| 9 | A | 1.8 | 7.10.2022 | 13590500 | 640.0 | 13589860.0 | 106.22 |
| 9 | B | 1.8 | 7.10.2022 | 14156200 | 640.0 | 14155560.0 | 110.65 |
| 9 | C | 1.8 | 7.10.2022 | 14116000 | 640.0 | 14115360.0 | 110.33 |
| 10 | A | 0.9 | 7.10.2022 | 13584900 | 640.0 | 13584260.0 | 106.18 |
| 10 | B | 0.9 | 7.10.2022 | 14194200 | 640.0 | 14193560.0 | 110.94 |
| 10 | C | 0.9 | 7.10.2022 | 13479100 | 640.0 | 13478460.0 | 105.35 |
| 11 | A | 0.4 | 7.10.2022 | 13271200 | 640.0 | 13270560.0 | 103.73 |
| 11 | B | 0.4 | 7.10.2022 | 13912700 | 640.0 | 13912060.0 | 108.74 |
| 11 | C | 0.4 | 7.10.2022 | 14556200 | 640.0 | 14555560.0 | 113.77 |
| 12 | A | 0.2 | 7.10.2022 | 12879300 | 640.0 | 12878660.0 | 100.67 |
| 12 | B | 0.2 | 7.10.2022 | 14201600 | 640.0 | 14200960.0 | 111.00 |
| 12 | C | 0.2 | 7.10.2022 | 13729000 | 640.0 | 13728360.0 | 107.31 |

Table S3. Experimental data from the 3 independent experiments on the cytotoxicity of Dadapin-1 in the presence of FBS: luminescence readings of the controls

| | | | | | | |
|-----|-------------------|------------|----------|-------|------------|--------|
| 1 G | Reference Control | 23.09.2022 | 9232510 | 449.5 | 9232060.5 | 97.22 |
| 2 G | | 23.09.2022 | 9668150 | 449.5 | 9667700.5 | 101.81 |
| 3 G | | 23.09.2022 | 9558410 | 449.5 | 9557960.5 | 100.65 |
| 4 G | | 23.09.2022 | 9526830 | 449.5 | 9526380.5 | 100.32 |
| 1 G | | 28.09.2022 | 9842530 | 635.5 | 9841894.5 | 78.51 |
| 2 G | | 28.09.2022 | 13045300 | 635.5 | 13044664.5 | 104.06 |
| 3 G | | 28.09.2022 | 13870600 | 635.5 | 13869964.5 | 110.65 |
| 4 G | | 28.09.2022 | 13385600 | 635.5 | 13384964.5 | 106.78 |
| 1 G | | 7.10.2022 | 12171800 | 640.0 | 12171160.0 | 95.14 |
| 2 G | | 7.10.2022 | 12917700 | 640.0 | 12917060.0 | 100.97 |
| 3 G | | 7.10.2022 | 12472000 | 640.0 | 12471360.0 | 97.48 |
| 4 G | | 7.10.2022 | 13615200 | 640.0 | 13614560.0 | 106.42 |
| 5 G | Medium Control | 23.09.2022 | 9675150 | 449.5 | 9674700.5 | 101.88 |
| 6 G | | 23.09.2022 | 10516600 | 449.5 | 10516150.5 | 110.74 |
| 7 G | | 23.09.2022 | 9934840 | 449.5 | 9934390.5 | 104.62 |
| 8 G | | 23.09.2022 | 9892810 | 449.5 | 9892360.5 | 104.17 |
| 5 G | | 28.09.2022 | 12108200 | 635.5 | 12107564.5 | 96.59 |
| 6 G | | 28.09.2022 | 13420900 | 635.5 | 13420264.5 | 107.06 |
| 7 G | | 28.09.2022 | 13309800 | 635.5 | 13309164.5 | 106.17 |
| 8 G | | 28.09.2022 | 12927600 | 635.5 | 12926964.5 | 103.12 |
| 5 G | | 7.10.2022 | 16924900 | 640.0 | 16924260.0 | 132.29 |
| 6 G | | 7.10.2022 | 16413600 | 640.0 | 16412960.0 | 128.29 |
| 7 G | | 7.10.2022 | 17477300 | 640.0 | 17476660.0 | 136.61 |
| 8 G | | 7.10.2022 | 17221800 | 640.0 | 17221160.0 | 134.61 |

| | | | | | | |
|------|------------------|------------|------|-------|--------|------|
| 9 G | Positive Control | 23.09.2022 | 2858 | 449.5 | 2408.8 | 0.03 |
| 10 G | | 23.09.2022 | 696 | 449.5 | 246.5 | 0.00 |
| 11 G | | 23.09.2022 | 648 | 449.5 | 198.5 | 0.00 |
| 12 G | | 23.09.2022 | 1038 | 449.5 | 588.5 | 0.01 |
| 9 G | | 28.09.2022 | 4319 | 635.5 | 3683.2 | 0.03 |
| 10 G | | 28.09.2022 | 1680 | 635.5 | 1044.6 | 0.01 |
| 11 G | | 28.09.2022 | 1594 | 635.5 | 958.6 | 0.01 |
| 12 G | | 28.09.2022 | 1488 | 635.5 | 852.6 | 0.01 |
| 9 G | | 7.10.2022 | 5411 | 640.0 | 4771.2 | 0.04 |
| 10 G | | 7.10.2022 | 1486 | 640.0 | 846.1 | 0.01 |
| 11 G | | 7.10.2022 | 1518 | 640.0 | 878.1 | 0.01 |
| 12 G | | 7.10.2022 | 1646 | 640.0 | 1006.1 | 0.01 |

Table S4. Experimental data from the 3 independent experiments on the cytotoxicity of Dadapin-1 in the presence of FBS: summary table with statistics from all three experiments.

| Dadapin-1 [µg/mL] | % CELL ACTIVITY | | RLU | |
|----------------------|-----------------|------|------------|-----------|
| | Mean (%) | S.D. | Mean (RLU) | S.D. |
| 450.0 | 81.2 | 7.0 | 9365209.4 | 1115837.8 |
| 225.0 | 93.8 | 8.1 | 10901789.4 | 1838778.6 |
| 112.5 | 109.5 | 8.3 | 12689300.5 | 1811593.1 |
| 56.3 | 112.5 | 8.0 | 13031080.5 | 1806712.9 |
| 28.1 | 111.3 | 6.2 | 12923692.8 | 1942778.6 |
| 14.1 | 111.3 | 6.3 | 12932791.6 | 2012095.6 |
| 7.0 | 111.9 | 5.2 | 12988402.8 | 1883922.9 |
| 3.5 | 110.1 | 6.8 | 12760990.5 | 1784836.4 |
| 1.8 | 109.3 | 8.9 | 12744777.2 | 2300305.1 |
| 0.9 | 113.2 | 6.5 | 13157191.6 | 2054960.8 |
| 0.4 | 111.9 | 5.9 | 13014241.6 | 2028183.2 |
| 0.2 | 107.5 | 5.6 | 12521657.2 | 2129129.5 |

Table S5. Experimental data from the 3 independent experiments on the cytotoxicity of Dadapin-1 in the presence of FBS: cell metabolic activity for the treatments plotted in **Figure 2**.

| | Mean (% cell activity) | S.D. |
|-------------------------|------------------------|------|
| Reference control | 100.0 | 8.1 |
| Medium control | 113.8 | 14.6 |
| Positive control | 0.01 | 0.01 |
| Dadapin-1 (112.5 µg/mL) | 109.5 | 8.3 |
| Dadapin-1 (225 µg/mL) | 93.8 | 8.1 |
| Dadapin-1 (450 µg/mL) | 81.2 | 7.0 |

Table S6. Experimental data from the 2 independent experiments on the cytotoxicity of Dadapin-1 in the absence of FBS: luminescence readings at different Dadapin-1 concentrations.

| Well | Row | [Dadapin-1](ug/mL) | Data | Sample (RLU) | Blank (RLU) | Sample-Blank | Cell activity (%) |
|------|-----|--------------------|------------|--------------|-------------|--------------|-------------------|
| 1 | A | 450.0 | 21.12.2022 | 2235950 | 311.5 | 2235638.5 | 22.18 |
| 1 | B | 450.0 | 21.12.2022 | 1748910 | 311.5 | 1748598.5 | 17.35 |
| 1 | C | 450.0 | 21.12.2022 | 1712860 | 311.5 | 1712548.5 | 16.99 |
| 2 | A | 225.0 | 21.12.2022 | 6948510 | 311.5 | 6948198.5 | 68.93 |
| 2 | B | 225.0 | 21.12.2022 | 6857870 | 311.5 | 6857558.5 | 68.03 |
| 2 | C | 225.0 | 21.12.2022 | 6678080 | 311.5 | 6677768.5 | 66.25 |
| 3 | A | 112.5 | 21.12.2022 | 8462910 | 311.5 | 8462598.5 | 83.95 |
| 3 | B | 112.5 | 21.12.2022 | 8595040 | 311.5 | 8594728.5 | 85.26 |
| 3 | C | 112.5 | 21.12.2022 | 8122820 | 311.5 | 8122508.5 | 80.58 |
| 4 | A | 56.3 | 21.12.2022 | 9532850 | 311.5 | 9532538.5 | 94.57 |
| 4 | B | 56.3 | 21.12.2022 | 9300780 | 311.5 | 9300468.5 | 92.26 |
| 4 | C | 56.3 | 21.12.2022 | 9165660 | 311.5 | 9165348.5 | 90.92 |
| 5 | A | 28.1 | 21.12.2022 | 10000300 | 311.5 | 9999988.5 | 99.20 |
| 5 | B | 28.1 | 21.12.2022 | 9965060 | 311.5 | 9964748.5 | 98.85 |
| 5 | C | 28.1 | 21.12.2022 | 9112850 | 311.5 | 9112538.5 | 90.40 |
| 6 | A | 14.1 | 21.12.2022 | 9570010 | 311.5 | 9569698.5 | 94.94 |
| 6 | B | 14.1 | 21.12.2022 | 9114950 | 311.5 | 9114638.5 | 90.42 |
| 6 | C | 14.1 | 21.12.2022 | 9003150 | 311.5 | 9002838.5 | 89.31 |
| 7 | A | 7.0 | 21.12.2022 | 9081670 | 311.5 | 9081358.5 | 90.09 |
| 7 | B | 7.0 | 21.12.2022 | 9497790 | 311.5 | 9497478.5 | 94.22 |
| 7 | C | 7.0 | 21.12.2022 | 8848810 | 311.5 | 8848498.5 | 87.78 |
| 8 | A | 3.5 | 21.12.2022 | 9028390 | 311.5 | 9028078.5 | 89.56 |
| 8 | B | 3.5 | 21.12.2022 | 9891390 | 311.5 | 9891078.5 | 98.12 |

| | | | | | | | |
|----|---|-------|------------|----------|-------|------------|--------|
| 8 | C | 3.5 | 21.12.2022 | 9003810 | 311.5 | 9003498.5 | 89.32 |
| 9 | A | 1.8 | 21.12.2022 | 8922210 | 311.5 | 8921898.5 | 88.51 |
| 9 | B | 1.8 | 21.12.2022 | 9354290 | 311.5 | 9353978.5 | 92.80 |
| 9 | C | 1.8 | 21.12.2022 | 8880370 | 311.5 | 8880058.5 | 88.09 |
| 10 | A | 0.9 | 21.12.2022 | 9008300 | 311.5 | 9007988.5 | 89.36 |
| 10 | B | 0.9 | 21.12.2022 | 9138000 | 311.5 | 9137688.5 | 90.65 |
| 10 | C | 0.9 | 21.12.2022 | 8283040 | 311.5 | 8282728.5 | 82.17 |
| 11 | A | 0.4 | 21.12.2022 | 8319240 | 311.5 | 8318928.5 | 82.53 |
| 11 | B | 0.4 | 21.12.2022 | 9218890 | 311.5 | 9218578.5 | 91.45 |
| 11 | C | 0.4 | 21.12.2022 | 8251220 | 311.5 | 8250908.5 | 81.85 |
| 12 | A | 0.2 | 21.12.2022 | 8091570 | 311.5 | 8091258.5 | 80.27 |
| 12 | B | 0.2 | 21.12.2022 | 9055360 | 311.5 | 9055048.5 | 89.83 |
| 12 | C | 0.2 | 21.12.2022 | 7982240 | 311.5 | 7981928.5 | 79.18 |
| 1 | A | 450 | 23.12.2022 | 2850230 | 237.0 | 2849993.0 | 37.21 |
| 1 | B | 450 | 23.12.2022 | 2400650 | 237.0 | 2400413.0 | 31.34 |
| 1 | C | 450 | 23.12.2022 | 2521500 | 237.0 | 2521263.0 | 32.92 |
| 2 | A | 225 | 23.12.2022 | 7600970 | 237.0 | 7600733.0 | 99.25 |
| 2 | B | 225 | 23.12.2022 | 7320680 | 237.0 | 7320443.0 | 95.59 |
| 2 | C | 225 | 23.12.2022 | 7492800 | 237.0 | 7492563.0 | 97.83 |
| 3 | A | 112.5 | 23.12.2022 | 8604410 | 237.0 | 8604173.0 | 112.35 |
| 3 | B | 112.5 | 23.12.2022 | 8607640 | 237.0 | 8607403.0 | 112.39 |
| 3 | C | 112.5 | 23.12.2022 | 9030690 | 237.0 | 9030453.0 | 117.91 |
| 4 | A | 56.25 | 23.12.2022 | 9443670 | 237.0 | 9443433.0 | 123.31 |
| 4 | B | 56.25 | 23.12.2022 | 10232300 | 237.0 | 10232063.0 | 133.60 |
| 4 | C | 56.25 | 23.12.2022 | 9876340 | 237.0 | 9876103.0 | 128.96 |
| 5 | A | 28.1 | 23.12.2022 | 9746920 | 237.0 | 9746683.0 | 127.27 |
| 5 | B | 28.1 | 23.12.2022 | 10303300 | 237.0 | 10303063.0 | 134.53 |
| 5 | C | 28.1 | 23.12.2022 | 10467300 | 237.0 | 10467063.0 | 136.67 |

| | | | | | | | |
|----|---|------|------------|----------|-------|------------|--------|
| 6 | A | 14.1 | 23.12.2022 | 9515940 | 237.0 | 9515703.0 | 124.25 |
| 6 | B | 14.1 | 23.12.2022 | 10364200 | 237.0 | 10363963.0 | 135.33 |
| 6 | C | 14.1 | 23.12.2022 | 9964630 | 237.0 | 9964393.0 | 130.11 |
| 7 | A | 7.0 | 23.12.2022 | 9825840 | 237.0 | 9825603.0 | 128.30 |
| 7 | B | 7.0 | 23.12.2022 | 10225600 | 237.0 | 10225363.0 | 133.52 |
| 7 | C | 7.0 | 23.12.2022 | 10528500 | 237.0 | 10528263.0 | 137.47 |
| 8 | A | 3.5 | 23.12.2022 | 9719500 | 237.0 | 9719263.0 | 126.91 |
| 8 | B | 3.5 | 23.12.2022 | 10339900 | 237.0 | 10339663.0 | 135.01 |
| 8 | C | 3.5 | 23.12.2022 | 9724780 | 237.0 | 9724543.0 | 126.98 |
| 9 | A | 1.8 | 23.12.2022 | 9359080 | 237.0 | 9358843.0 | 122.20 |
| 9 | B | 1.8 | 23.12.2022 | 9537550 | 237.0 | 9537313.0 | 124.53 |
| 9 | C | 1.8 | 23.12.2022 | 10311300 | 237.0 | 10311063.0 | 134.63 |
| 10 | A | 0.9 | 23.12.2022 | 9709820 | 237.0 | 9709583.0 | 126.78 |
| 10 | B | 0.9 | 23.12.2022 | 9698620 | 237.0 | 9698383.0 | 126.63 |
| 10 | C | 0.9 | 23.12.2022 | 9945860 | 237.0 | 9945623.0 | 129.86 |
| 11 | A | 0.4 | 23.12.2022 | 9300720 | 237.0 | 9300483.0 | 121.44 |
| 11 | B | 0.4 | 23.12.2022 | 9263040 | 237.0 | 9262803.0 | 120.95 |
| 11 | C | 0.4 | 23.12.2022 | 9701410 | 237.0 | 9701173.0 | 126.67 |
| 12 | A | 0.2 | 23.12.2022 | 9286840 | 237.0 | 9286603.0 | 121.26 |
| 12 | B | 0.2 | 23.12.2022 | 10622500 | 237.0 | 10622263.0 | 138.70 |
| 12 | C | 0.2 | 23.12.2022 | 9802870 | 237.0 | 9802633.0 | 128.00 |

Table S7. Experimental data from the 2 independent experiments on the cytotoxicity of Dadapin-1 in the absence of FBS: luminescence readings of the controls.

| | | | | | | |
|--------------------------|------------|----------|-------|------------|--------|--------|
| Reference Control | 21.12.2022 | 10219300 | 311.5 | 10218988.5 | 101.38 | |
| | 21.12.2022 | 10613200 | 311.5 | 10612888.5 | 105.28 | |
| | 21.12.2022 | 9296840 | 311.5 | 9296528.5 | 92.23 | |
| | 21.12.2022 | 10192900 | 311.5 | 10192588.5 | 101.11 | 100.00 |
| | 23.12.2022 | 6833410 | 237.0 | 6833173.0 | 89.22 | |
| | 23.12.2022 | 7700940 | 237.0 | 7700703.0 | 100.55 | |
| | 23.12.2022 | 7956100 | 237.0 | 7955863.0 | 103.88 | |
| | 23.12.2022 | 8144710 | 237.0 | 8144473.0 | 106.34 | 100.00 |
| Medium Control | 21.12.2022 | 9813790 | 311.5 | 9813478.5 | 97.35 | |
| | 21.12.2022 | 9776870 | 311.5 | 9776558.5 | 96.99 | |
| | 21.12.2022 | 10479000 | 311.5 | 10478688.5 | 103.95 | |
| | 21.12.2022 | 9328500 | 311.5 | 9328188.5 | 92.54 | 97.71 |
| | 23.12.2022 | 8272570 | 237.0 | 8272333.0 | 108.01 | |
| | 23.12.2022 | 8018250 | 237.0 | 8018013.0 | 104.69 | |
| | 23.12.2022 | 8502740 | 237.0 | 8502503.0 | 111.02 | |
| | 23.12.2022 | 8370250 | 237.0 | 8370013.0 | 109.29 | 108.25 |
| Positive Control | 21.12.2022 | 31587 | 311.5 | 31275.4 | 0.31 | |
| | 21.12.2022 | 30406 | 311.5 | 30094.4 | 0.30 | |
| | 21.12.2022 | 23300 | 311.5 | 22988.7 | 0.23 | |
| | 21.12.2022 | 16287 | 311.5 | 15975.4 | 0.16 | 0.25 |
| | 23.12.2022 | 39213 | 237.0 | 38975.9 | 0.51 | |
| | 23.12.2022 | 19640 | 237.0 | 19402.8 | 0.25 | |
| | 23.12.2022 | 16553 | 237.0 | 16316.2 | 0.21 | |
| | 23.12.2022 | 13161 | 237.0 | 12924.1 | 0.17 | 0.29 |

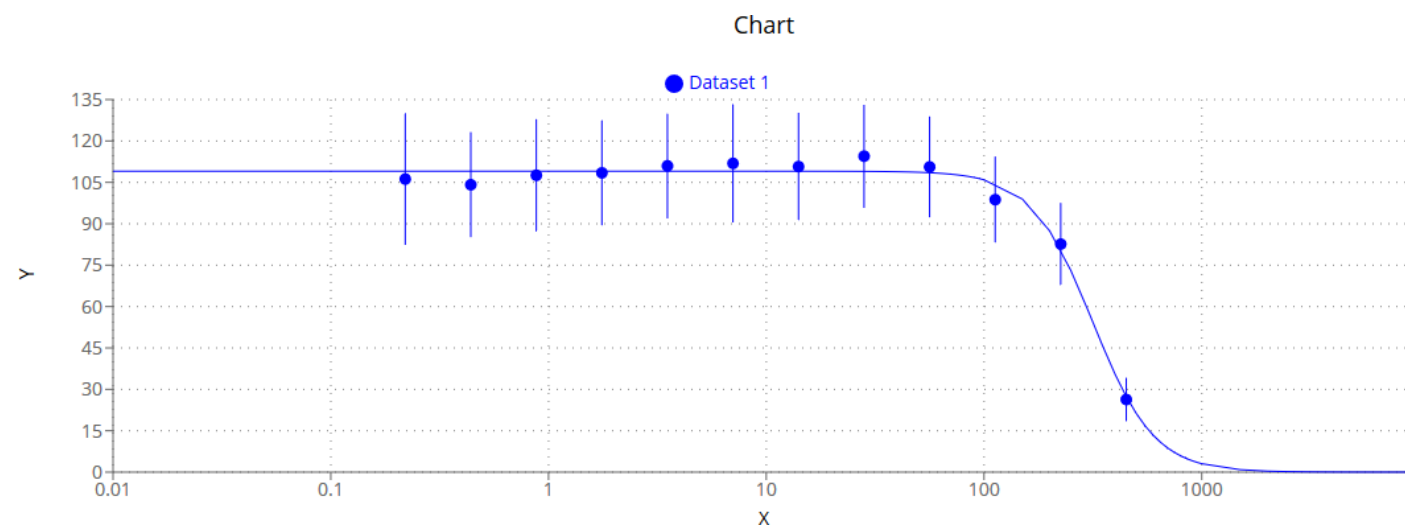


Figure S1. This chart shows the regression curve achieved by Quest Graph™ IC50 Calculator with the cytotoxicity data obtained testing Dadapin-1 on MG63 cells in the absence of FBS. On the X-axis the Dadapin-1 concentration values are reported in $\mu\text{g/mL}$, while the values on the Y-axis represent the percentage of metabolic activity with respect to the Reference control equated to 100%.