

## Novel set of diarylmethanes to target colorectal cancer: synthesis, *in vitro* and *in silico* studies

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## Cytotoxicity evaluation

80% confluent L929 cells were plated in flat bottom plates at  $4 \times 10^5$  cells per well in 100  $\mu\text{L}$  of DMEM medium containing 10% FBS, 2 mM L-Glutamine, 100 U/mL Penicillin - 100  $\mu\text{g/mL}$  Streptomycin (complete medium) and incubated for one night at 37 °C, 5%  $\text{CO}_2$ . Serial dilutions of compounds (from 100  $\mu\text{M}$  to 0.78  $\mu\text{M}$ ) diluted in complete medium containing 0.5 % DMSO were added to the wells and incubated for 24 hours. Supernatants were discarded and 100  $\mu\text{L}$  of MTT at 0.5 mg/mL were added to the wells. After 2 hours, supernatants were discarded and 200  $\mu\text{L}$  of DMSO were added. Plates were read at 570 nm with a spectrophotometer providing the optical density (OD) of each well and percentages of survival were calculated for each well using the formula:

$$\text{Percentage of survival} = \frac{OD_{\text{compound}}}{OD_{\text{negative control}}} \times 100$$





















