

The purpose of this study was to determine the effect of cyclohexylmethylparaben on the caspase-3 pathway of human M624 melanoma cells. M624 cells were treated with 0.35, 0.45, 0.55, and 0.65 mM cyclohexylmethylparaben then cell proliferation was analyzed using clonogenic assays. An IC₅₀ value of 0.4578 mM was calculated for cyclohexylmethylparaben in M624 cells. Bradford protein and caspase-3 activity assays were used to analyze caspase-3 activation. Activation of caspase-3 and apoptotic cell death were expected.