

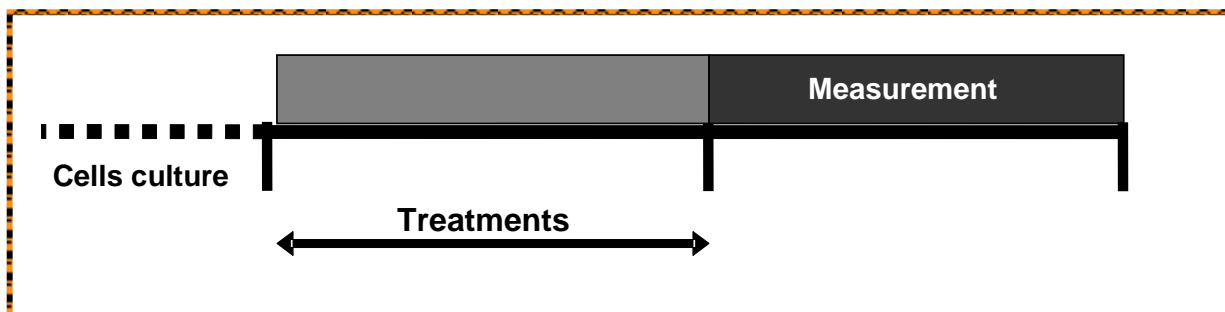
**CASPASE 3/7 ACTIVITY ASSAY**

**OUR MODEL**

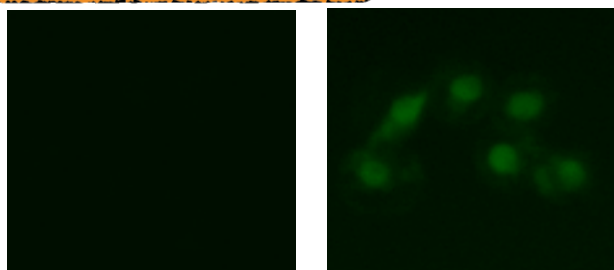
Apoptosis, or programmed cell death, is a normal component of the development and health of multicellular organisms. In this assay caspase 3-7 activation is quantified to estimate the apoptotic level in living cells\*. Apoptosis evaluation study is a cellular assay to evaluate the activation level of the caspase 3 protein which is a key role component during apoptosis activation.

To evaluate the Caspase 3/7 activity, a fluorescent caspase 3/7 detection dye is used. The tested compounds are incubated with the cells and following the dye is added and measured in the automated fluorescent image platform (Cell Insight CX7 HCS Platform). The fluorescent signal of tested compounds is compared with the control samples.

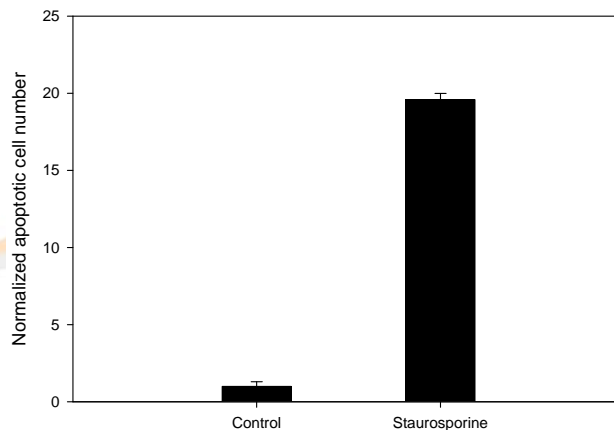
\* See our catalog of primary cells at [www.innoprot.com](http://www.innoprot.com) and select the cell type you require.



**RESULTS**



**Figure 1. Caspase 3 evaluation assay in Human Mammary Epithelial Cells (HMEpiC).** Cells were cultured under basal conditions (left) & treated with staurosporin (right, apoptosis activation positive control) 0.5  $\mu$ M during 24 hours. Caspase 3/7 dye added to cells, incubated 30 minutes, and visualized. Apoptotic cells with activated caspase-3/7 show bright green nuclei, while cells without activated caspase 3/7 show minimal fluorescence signal.



**Figure 2.** Cisplatin treatment provokes statistically significant augmentation of caspase 3 activation respect to untreated control on Human Mammary Epithelial Cells.