Cell Counting Kit-8
ALX-850-039
Colorimetric kit for simple and accurate cell proliferation and cytotoxicity assays.

Product Number/Sizes
ALX-850-039-Ki02 5x500 tests
ALX-850-039-Ki01 500 tests
ALX-850-039-0100 100 tests

- One-step, ready-to-use solution with no radioisotopes
- High sensitivity that correlates with the [³H]-thymidine incorporation assay
- High-throughput screening without a solubilization step
- More sensitive and stable than MTT, MTS or WST-1

The Cell Counting Kit-8 is a colorimetric assay kit used to measure cell proliferation and cytotoxicity.

It is a ready-to-use solution that does not require radioisotopes and correlates with the [³H]-thymidine incorporation assay. It can be added directly to the cell media for fast, high-throughput screening without a solubilization process obtaining highly reproducible and accurate results. CCK-8 has shown to achieve higher sensitivity and stability than MTT, MTS or WST-1.

Product Specifications
ALTERNATIVE NAME: CCKi-8
APPLICATIONS: Colorimetric detection
QUANTITY:
100 tests: 1 mL
500 tests: 5 mL
2500 tests: 5 x 5 mL
HANDLING: Protect from light. Avoid freeze/thaw cycles.
SHIPPING: Shipped on Blue Ice
LONG TERM STORAGE: -20°C
CONTENTS: WST-8 solution, 1-methoxy-PMS
TECHNICAL INFO/PRODUCT NOTES:
Principle: Employs the tetrazolium salt WST-8 (2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfolphenyl)-2H-tetrazolium, monosodium salt), that produces a highly water soluble formazan dye upon biochemical reduction in the presence of an electron carrier, 1-methoxy-PMS. The amount of the yellow colored formazan dye generated by dehydrogenases in cells is directly proportional to the number of viable cells in a culture medium.
CTLL-2 cells were incubated with various concentrations of IL-2 for 72 hours. CCK-8 solution was added to each well and the absorbance at 450nm was measured. IL-2 exposure resulted in an increase absorbance which correlates to an increase in cell proliferation.
CTLL-2 cells were incubated with various concentrations of IL-2 for 72 hours. CCK-8 solution was added to each well and the absorbance at 450nm was measured. IL-2 exposure resulted in an increase absorbance which correlates to an increase in cell proliferation. CCK-8 shows greatest sensitivity.
CCK-8 sensitivity for HeLa and HL60 cells are more sensitive than MTT

Product Literature References


Oncofetal HMGA2 attenuates genotoxic damage induced by topoisomerase II target compounds through the regulation of local DNA topology S.M. Ahmed, et al. Mol. Oncol. 13 2062 (2019)


Synthetic inhibition and toxicity of Toxoplasma gondii by the anti-malarial candidate, 6-(1,2,6,7-tetraoxaspiro[7.11]nonadec-4-yl)-hexan-1-ol C.F. Xin, et al. Parasitol. Int. 16 30212 (2016)


Hypoxia-inducible factor (HIF)-1α suppression in myeloma cells blocks tumoral growth in vivo inhibiting angiogenesis and bone destruction P. Storti, et al. Leukemia 27 1697 (2013)


Biobased poly(propylene sebacate) as shape memory polymer with tunable switching temperature for potential biomedical applications B. Guo, et al. Biomacromolecules 12 1312 (2011)


Overexpression of Toll-like receptor 2/4 on monocytes modulates the activities of CD4(+)/CD25(+) regulatory T cells in chronic hepatitis B virus infection Y. Zhang, et al. Virolology 397 34 (2010)


A highly water-soluble disulfonated tetrazolium salt as a chromogenic indicator for NADH as well as cell viability M. Ishiyama, et al. Talanta 44 1299 (1997)

Revised 20-Dec-19