

Cell Counting Kit-8 Accessory Reagent

Cell Counting Kit-8 (CCK-8)

CATALOG #
AAA45517

PRODUCT SYNONYMS

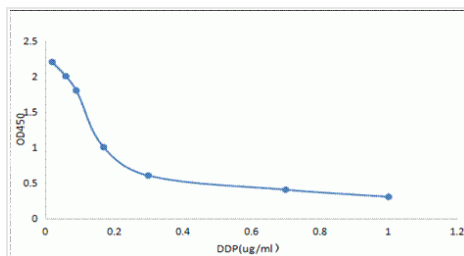
Cell Counting Kit-8; Cell Counting Kit-8 (CCK-8); Cell Counting Kit-8 accessory reagent

PRODUCT SPECIFICATIONS

Preparation and Storage

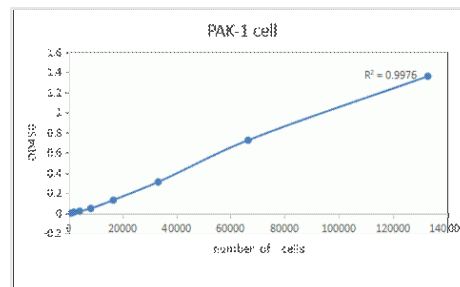
Store at 4 degree C in dark for one year.

IMAGES



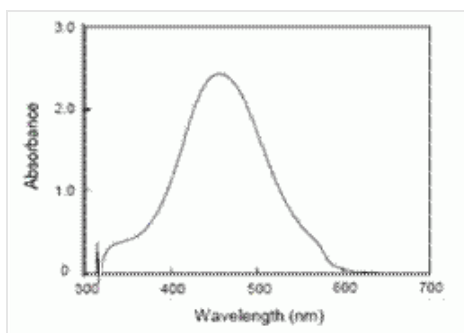
Application Data

Figure 3. Toxicological test of chemicals using CCK-8Cell line: helaMedium: DMEM, 10% FBS
Chemicals: 200 uM Cisplatin (DDP)Incubation: 37 degree C, 5% CO₂, 2 hours



Application Data

Figure 2. Cell proliferation assay using CCK-8Culture medium: MEM, 10% FBSIncubation: 37 °C, 5% CO₂, 2 hoursDetectin: 450nm



Application Data

Figure 1. Absorption spectrum of WST-8 formazanFigure 1 shows the absorption spectrum of WST-8 formazan. Since the absorbance at 460 nm is proportional to the number of viable cells in the medium, the viable cell number can be determined using the absorbance of a previously prepared calibration curve.

ADDITIONAL INFORMATION

Related Product Information for Cell Counting Kit-8 accessory reagent	Background/Introduction: Cell Counting Kit-8 (CCK-8) allows very convenient assays by utilizing highly water-soluble tetrazolium salt. WST-8 [2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2, 4-disulphophenyl)-2H-tetrazolium, monosodium salt]* produces a water-soluble formazan dye upon reduction in the presence of an electron carrier. Cell Counting Kit-8 is a one-bottle solution; no premixing of components is required. Cell Counting Kit-8, being nonradioactive, allows sensitive colorimetric assays for the determination of the number of viable cells in cell proliferation cytotoxicity assays. WST-8 is reduced by dehydrogenases in cells to give an orange colored product (formazan), which is soluble in the tissue culture medium. The amount of the formazan dye generated by the activity of dehydrogenases in cells is directly proportional to the number of living cells. The cell proliferation assay using CCK-8 correlates well with the [(3)H]thymidine incorporation assay. And the CCK-8 assay can also be substituted for the [(3)H]thymidine incorporation assay. The detection sensitivity of CCK-8 is higher than other tetrazolium salts such as MTT, XTT, MTS or WST-1.
Product Categories/Family for Cell Counting Kit-8 accessory reagent	Assistant Reagent

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/accessory-reagent/cell-counting-kit-8/45517>