

## Cell Counting 8 (CCK-8) Assay Kit | CCK-8 assay kit

Cell Counting Kit-8 (CCK-8)

CATALOG #  
**AAA332477**

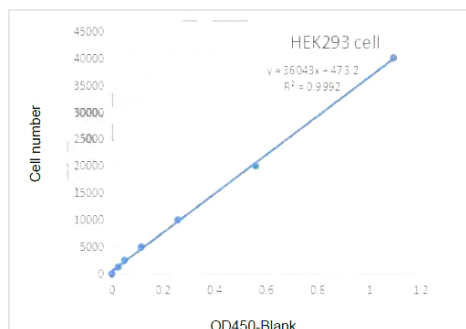
### PRODUCT SYNONYMS

Cell Counting 8 (CCK-8); Cell Counting Kit-8 (CCK-8); CCK-8; WST-8; CCK8; WST8; CCK-8 assay kit

### PRODUCT SPECIFICATIONS

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form/Format</b>             | Liquid solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Kit Components</b>          | CCK-8 solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Features &amp; Benefits</b> | <p>One-bottle, ready-to-use solution.</p> <p>The product (formazan) produced by WST-8 is water soluble, No organic solvents or isotopes required. And the formazan is stable and safe.</p> <p>The detection sensitivity using CCK-8 is higher than assays using other tetrazolium salts such as MTT, XTT, MTS or WST-1.</p> <p>The same cells can be used for other cell assays because of the low toxicity of CCK-8.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Usage Notes</b>             | <p>Since the CCK-8 assay is based on the dehydrogenase activity detection in viable cells, conditions or chemicals that affect dehydrogenase activity in viable cells may cause discrepancy between the actual viable cell number and the cell number determined using the CCK-8 assay.</p> <p>Be careful not to introduce bubbles to the wells, since they interfere with the OD reading.</p> <p>The incubation time varies by the type and number of cells in a well. Generally, leukocytes give weak coloration, thus a long incubation time (up to 4 hours) or a large number of cells (~105 cells/well) may be necessary.</p> <p>If the color or PH of culture media is changed due to long-time culture, please change the culture media when adding CCK-8.</p> <p>The same cells can be used for other cell assays because of the low toxicity of CCK-8.</p> |
| <b>Preparation and Storage</b> | <p>CCK-8 is stable for one year at 0-5 degree C with protection from light. Store it at -20 degree C for longer storage.</p> <p>Repeated thawing and freezing causes an increase in the background, which interferes with the assay. Please store the kit at 0-5 degree C for frequent use.</p> <p>Shipping: Gel pack with blue ice.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CCK-8 assay kit | Principle of the Assay: 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-disulfophenyl)-2H-tetrazolium, monosodium salt] produces a water-soluble formazan dye upon reduction in the presence of an electron mediator. CCK-8, being nonradioactive, allows sensitive colorimetric assays for the determination of the number of viable cells in cell proliferation and 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. Cell Counting Kit-8 (CCK-8) is designed to detect cell proliferation and cell toxicity based on WST-8 is reduced by dehydrogenases in cells to give an orange colored product (formazan). The amount of the formazan in cells is directly proportional to the number of living cells. The product (formazan) produced by WST-8 is water soluble, no organic solvents or isotopes required. And the formazan is stable and safe. The detection sensitivity using CCK-8 is higher than assays using other tetrazolium salts such as MTT, XTT, MTS or WST-1. |
| Product Categories/Family for CCK-8 assay kit   | Cell Status Detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/assay-kits/cell-counting-8-cck-8/332477>