

## T-Pro Cell Counting Kit (CCK-8)

**T-Pro**  
Biotechnology

Store at  
-20°C

JK95-C008S (5x1ml) 500 tests  
JK95-C008M (2x5ml) 1,000 tests  
JK95-C008L (20x5ml) 10,000 tests

**This product is for laboratory research ONLY and not for diagnostic use.**

<b>Product Overview</b>	The T-Pro Cell Counting Kit (CCK-8) is a convenient and robust way of measuring cell viability. The kit uses a water-soluble tetrazolium salt to quantify the number of live cells by producing an orange formazan dye upon bio-reduction in the presence of an electron carrier
<b>Features</b>	<p><b>Materials Required, Not Supplied</b></p> <ul style="list-style-type: none"><li>● These materials are not included in the kit, but will be required to successfully perform this assay:</li><li>● Microplate reader capable of measuring absorbance at OD = 450-460 nm</li><li>● 96 well plate with clear flat bottom.</li></ul>
<b>Research Applications</b>	The T-Pro Cell Counting Kit (CCK-8) Solution is ready to use as supplied.
<b>Protocol</b>	<p>1. Cell Proliferation and Cytotoxicity Assay</p> <p>Plate 5000 to 100,000 cells per well in a tissue culture microplate with a clear bottom.</p> <p>Add test compounds into cells and incubate for a desired period (e.g. 24, 48 or 96 hours) in a 37°C, 5% CO<sub>2</sub> incubator.</p> <p>For blank wells (medium without cells), add the same amount of test compounds.</p> <p>The suggested volume is 100 µl for a 96 well plate and 50 µl for a 384 well plate.</p> <p>Note: Each cell line should be evaluated on an individual basis to determine the optimal cell density for proliferation or cytotoxicity induction. For proliferation assays, use fewer cells; for cytotoxicity assays, use more cells to start with.</p> <p>Add 10 µl/well (96 well plate) or 5 µl/well (384-well plate) of CCK-8 Solution to each well. Protect from the light and incubate for 2-4 hours at 37°C.</p> <p>Note: The incubation time could be from 30 minutes to overnight depending on the individual cell type and cell concentration used. Optimize the incubation time for each experiment.</p>

## 2. Cell Counting assay

Prepare cell culture in a tissue culture microplate with clear bottom. The suggested total volume is 100  $\mu$  L for a 96-well plate, and 50  $\mu$  L for a 384-well plate.

Add 10  $\mu$ l/well (96 well plate) or 5  $\mu$ l/well (384-well plate) of CCK-8 Solution to each well. Protect from the light and incubate for 2-4 hours at 37°C.

Note: The incubation time could be from 30 minutes to overnight depending on the individual cell type and cell concentration used. Optimize the incubation time for each experiment.

Measure the absorbance increase at 450-460nm.

### Storage

Store at -20°C for longer-term storage.

### Note:

- The absorbance of the blank wells may vary depending on the sources of the microtiter plates or the growth media.
- Media : Reagent (CCK-8) = 10 : 1

