

Code No. 180-03231 (100 μ L)
186-03233 (100 μ L \times 5)

Wako

rBC2LCN-PE23

rBC2LCN is a recombinant protein of N-terminal domain of BC2L-C. rBC2LCN has very high specificity to sugar chain which exists on the surface of undifferentiated human pluripotent stem cells (hPSCs), human ES cells and human iPS cells, and has been reported as a marker of undifferentiated hPSCs.

This product is a recombinant lectin-toxin fusion protein, in which the C-terminal of rBC2LCN is fused with a catalytic domain of *Pseudomonas aeruginosa* exotoxin A. rBC2LCN-PE23 induces cell death by inhibiting protein synthesis when internalized into hPSCs. Thus, rBC2LCN-PE23 is useful to remove undesired residual hPSCs from differentiated cell population.

This product is for laboratory research use only ; use in any such application is the responsibility of the user.

Formulation : 0.1 \times PBS(-) sterilized with 0.22 μ m filter

Protein concentration : Indicated on the label

Source : *E.coli* expressed rBC2LCN-PE23

Protocol :

- 1) Prepare differentiated cells from hPSCs.
- 2) Add rBC2LCN-PE23 to the culture medium so as to become final concentration of 10 μ g/mL.
- 3) Incubate under the culture condition for appropriate time enough to eliminate the remaining undifferentiated cells.
- 4) Culture in medium suitable for the differentiated cells.

Storage : Store at -20°C .

After thawing, store at $2\sim 10^{\circ}\text{C}$ and use within four weeks. If you don't use within four weeks, you should make aliquots and store at -20°C . Avoid repeating freeze-thaw.

Reference : Tateno, H. *et al.* : *Stem Cell Reports*, **4**, 811 (2015).

Package :

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