



TAMRA-IL-2, pin-point labeled

Pin-point TAMRA-labeled Interleukin-2 (human)

IL-2 (Accession No. P60568), pin-point labeled with TAMRA, was produced in the *E. coli* cell-free translation system in the presence of TAMRA-C6-*p*-aminophenylalanine (TAMRA-aminophenylalanine) amber suppressor tRNA, which is the one of the *CloverDirect*TM tRNA reagents for site-directed protein labeling¹⁾. Using amber suppression²⁾, TAMRA-aminophenylalanine is site-specifically incorporated at the amber stop codon (UAG) position.

TAMRA-IL-2 has the N-terminal ProX[®] tag, which is the sequence tag optimized for high productivity and high introducing efficiency of TAMRA-aminophenylalanine, and has the C-terminal hexahistidine tag.

The concentration of Pin-point TAMRA-IL-2 was measured by TAMRA fluorescence intensity using with TAMRA dye as a standard. TAMRA-IL-2 was purified by metal chelating-column.

Additional information; The identical labeled protein, TAMRA-IL-2, is able to be produced by Pin-point Fluorescence Labeling Kit 543³⁾, using with frame shift suppression (CGGG codon) instead of amber suppression.

- 1) http://www.proteinexpress.co.jp/j/products/reagent/cloverdirect_2.htm
- 2) Science, 244,182-188 (1989)
- 3) http://www.proteinexpress.co.jp/j/products/reagent/pin-point_kit_1.htm

Package; 1 µg
(1 µg/ml solution, 0.1 % (v/w) polyoxyethylene (23) lauryl ether in PBS)

Activity; The ED₅₀ is 0.1-0.2 ng/ml, determined by cell proliferation assay using CTLL-2 cells.

Storage; -80°C

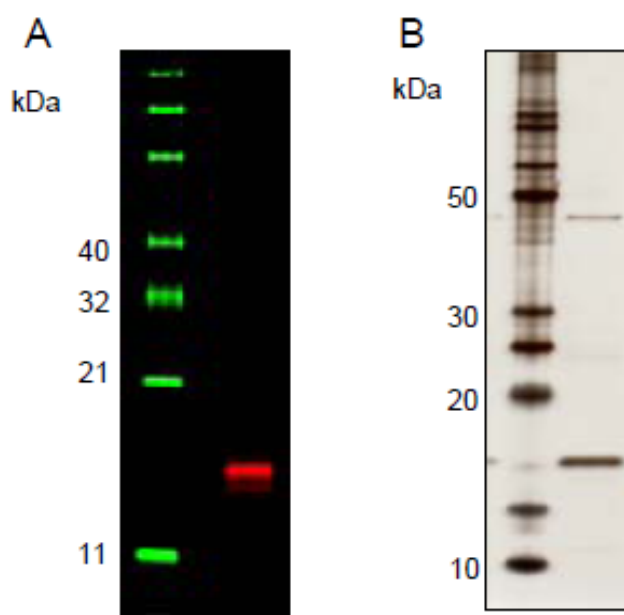
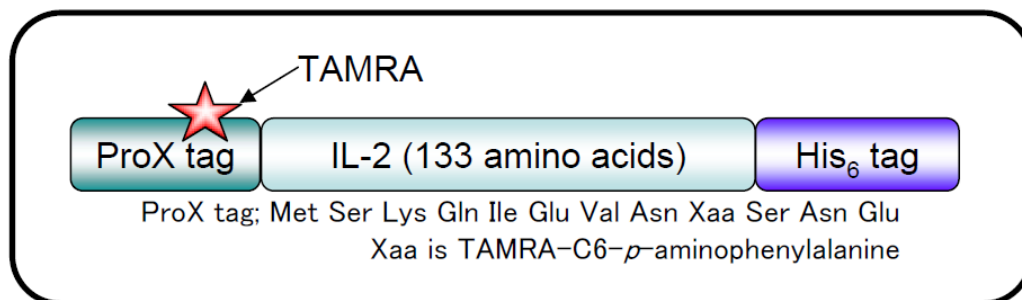
MW; 18.6 kDa

Abs/Em*: 546/575 nm

*Approximate absorption (Abs) and fluorescence emission (Em) maxima of TAMRA dye



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SDS-PAGE analysis of purified TAMRA-IL-2

A; fluorescence image,

B; silver-stain

For Research Use Only, Not for use in diagnostic procedures



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