

Code; RP609

Lot;

Size; 1 µg



ProteinExpress

TAMRA-FGF1, pin-point labeled

Pin-point TAMRA-labeled Fibroblast Growth factor, acidic (human)

FGF1 (Accession No. P05230), 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™ tRNA reagents for site-directed protein labeling¹⁾. Using amber suppression²⁾, TAMRA-aminophenylalanine is site-specifically incorporated at the amber stop codon (UAG) position.

TAMRA-FGF1 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-FGF1 was measured by TAMRA fluorescence intensity using with TAMRA dye as a standard. TAMRA-FGF1 was purified by metal chelating-column.

Additional information; The identical labeled protein, TAMRA-FGF1, 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

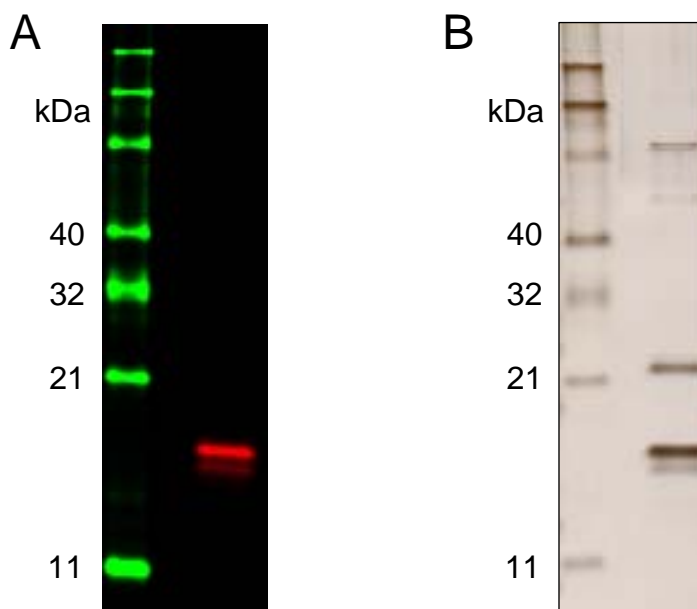
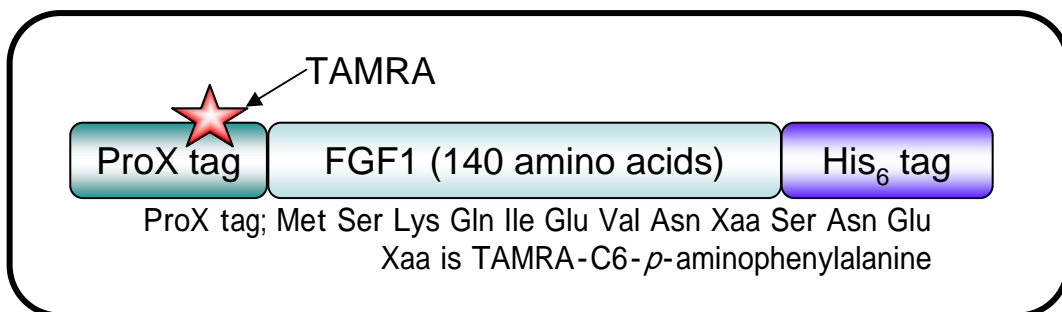
(µg/ml solution, 5mM Tris-HCl pH7.4, 150mM NaCl , 20% Glycerol,
0.1 % (v/w) polyoxyethylene (23) lauryl ether)

Storage; -80°C

MW; 18.8 kDa

Abs/Em*; 546/575 nm

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



SDS-PAGE analysis of purified TAMRA-FGF1

A; fluorescence image, B; silver-stain

For Research Use Only. Not for use in diagnostic procedures

ProteinExpress Co., Ltd.

Chiba University Inohana Innovation Plaza
1-8-15, Inohana, Chuo-ku, Chiba-shi, Chiba 260-0856, Japan
Tel: +81-43-202-5755, Fax: +81-43-202-5756
E-mail; service@proteinexpress.co.jp
URL; <http://www.proteinexpress.co.jp>