

Native Bovine ACTC1 Protein, Pyrene labeled

Cat. No. ACTC1-885B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine ACTC1 with a pyrenyl group covalently bound to Cys374 at the C-term of the molecule was purified from Bovine cardiac.
Species	Bovine
Source	Bovine cardiac
Description	G-actin from cardiac muscle is a single chain polypeptide with a molecular weight of 42kD consisting of 375 amino acids. Pyrene actin is chemically modified G-actin, carrying a pyrenyl group covalently bound to Cys374 at the C-term of the molecule. Pyrene Actin (10%) contains 10% of pyrenyl actin with a dye/protein molar ratio of 1.0.
Form	2mM Tris-Cl pH 8.2, 1.0mM ATP, 0.5mM DTT, 0.1mM CaCl ₂ , 1mM NaN ₃ and 0.3% disaccharides, when reconstituted with 1.0 ml ultrapure water to obtain a 1mg/ml solution.
Molecular Mass	42kDa
Purity	>99% by scanning densitometry.
Applications	Fluorimetical Analysis of actin dynamics (e.g. kinetics of polymerization, nucleation, depolymerization)
Storage	Pyrene actin is stored at –70 centigrade upon arrival and will be stable in

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performance for at least 6 months from the date of purchase. Solubilized pyrene actin is kept on ice and should be used within 1 week. Avoid refreezing.

Shipping

At ambient temperature. Upon delivery store at -70 centigrade.

GENE INFORMATION

Gene Name ACTC1 actin, alpha, cardiac muscle 1 [Bos taurus]

Official Symbol ACTC1

Synonyms ACTC1; actin, alpha, cardiac muscle 1

Gene ID 533219

mRNA Refseq NM_001034585

Protein Refseq NP_001029757

UniProt ID Q3ZC07

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