9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Actin Rabbit

Actin Rabbit
RCP0009

Product Overview

Name	Actin Rabbit

Description

Actin Rabbit

Introduction

Actin is a muscle protein localized in the I band of the myofibrils; acting along with myosin, it is responsible for contraction and relaxation of muscle. Each actin protomer binds one molecule of ATP and has one high affinity site for either calcium or magnesium ions, as well as several low affinity sites. Actin exists as a monomer in low salt concentrations, but filaments form rapidly as salt concentration rises, with the consequent hydrolysis of ATP. It occurs in globular (G-actin) and fibrous (F-actin) forms. Actin is found in all eukaryotic cells (except for nematode sperm). Actin is one of the most highly-conserved proteins, differing by no more than 20% in species as diverse as algae and humans. Its other functions include cell motility, cell division and cytokinesis, vesicle and organelle movement, cell signaling, and the establishment and maintenance of cell junctions and cell shape.

Source

Rabbit Muscle.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a 1mg/ml solution containing 10mM Tris/HCl buffer pH 8.0, 0.2mM CaCl2, 0.2mM ATP, 1mM DTT and 0.5% (w/v) SDS.

Stability

Store the Lyophilized Actin between 2-8°C, do not freeze. Upon reconstitution Actin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Solubility

It is recommended to reconstitute the lyophilized Actin in sterile 18MΩ-cm H2O not less than 1mg/ml, which can then be further diluted to other aqueous solutions.

Precautions

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Actin Rabbit is for research use only and not for use in diagnostic or therapeutic procedures.