Recombinant Danio rerio Beta-actin/ACTB Protein (His Tag)

Catalog Number: PDEO100020

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

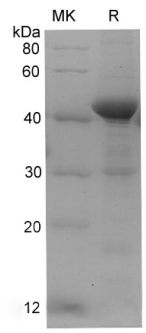
Description

Species	Danio rerio
Source	E.coli-derived Danio rerio Beta-actin protein Met1-Phe375, with an N-terminal His
Calculated MW	43.1 kDa
Observed MW	42-48 kDa
Accession	Q7ZVF9
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Danio rerio Beta-actin/ACTB proteins, 2 μg/lane of Recombinant Danio rerio Beta-actin/ACTB proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 42-48 kDa.

Background

Actin is a highly conserved protein that polymerizes to produce filaments that form cross-linked networks in the cytoplasm of cells. Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction. In addition to their role in the cytoplasmic cytoskeleton, G-and F-actin also localize in the nucleus, and regulate gene transcription and motility and repair of damaged DNA

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