

DATASHEET

Tropomyosin

From skeletal muscle (rabbit)
(> 95% purity)

For Use in Research Only.
Not for Use in Diagnostic Processes.

Quantity: 2x100µg
Cat. #: 8308-01

Product Description

Tropomyosin is a protein of the thin filament and involved in regulating the actin-myosin interaction. Tropomyosin (~70kD) is a heterodimeric protein (α,β) consisting of alpha helical coiled coils, laterally binding to actin filaments and binds in a 1:7 molar ratio (tropomyosin:g-actin). The protein concentration was determined by the Biuret method. Tropomyosin (100µg) is supplied as lyophilized powder containing 0.1M KCl, 20mM imidazole pH 7.4, 1mM EDTA, 2mM DTT and 2% disaccharides, when reconstituted with 100µl H₂O.

Due to our special cryoconservation technique the protein is of high biological activity as routinely determined by high speed cosedimentation assay (100,000xg, 30min) with rabbit skeletal muscle α -actin in the presence of sugars. At a molar ratio of 1:7 (actin:Tm), the proteins are mixed with F-actin, and after 20min at RT, the samples are used for high speed centrifugation.

Product Handling

Preparation of a working stock

Add 100µl of ultrapure water to each tube obtain a working stock of 1mg/ml. Leave to rehydrate for 2min at room temperature. Vortex mildly until dissolved. The working stock may be pre-spun (15.000xg, 10min) and is then ready-to-use. To exclude interference with actin binding sites or with other ligands by sugars added for from cryoconservation, the buffer may be exchanged against PolyMix (Cat no.: 5000-0*) or any other suitable buffer. Subsequent centrifugation at 30,000xg for 10min will remove possible aggregates. Buffer exchange is also recommended in cases where no binding is observed.

Product Storage and Stability

The highest product performance is achieved when stored at -70° upon arrival, where it will be stable for at least 6 months. Once dissolved, the protein is kept on ice and will be stable for at least two weeks.

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