

DATASHEET

α -Actinin

From smooth muscle (turkey gizzard)
(~98% purity)

Quantity: 2x100 μ g
Cat. #: 8301-01
Quantity: 1x1.0mg
Cat. #: 8301-02

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

Product Description

Native α -actinin from smooth muscle has a molecular mass of 100kDa and forms homodimers (200kDa). The protein concentration was determined UV-VIS $A_{280}=0.1201$ equals 1.0mg/ml. Smooth muscle α -actinin (100 μ g) is supplied as lyophilized powder containing 0.1M KCl, 10mM imidazole pH 7.4, 2mM MgCl₂, 0.2mM DTT and 2% disaccharides, when reconstituted with 100 μ l H₂O.

Due to our special cryoconservation technique α -actinin is of high biological activity, as routinely determined by low speed cosedimentation assay (20,000xg, 30min) with rabbit skeletal muscle α -actin in the absence of sugars. At a molar ratio of 1:25 (α -actinin:actin), the α -actinin is mixed with F-actin and after 20min at RT, the samples are used for low speed centrifugation.

Product Handling

1. Preparation of a working stock

Add 100 μ l to 100 μ g α -actinin, resp. 1.0ml to 1.0mg α -actinin of ultrapure water to the tube with α -actinin vortex until dissolved to obtain a working stock of 1mg/ml. Leave to rehydrate for 2min at room temperature. The protein stock is now 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*). It is only recommendable to exchange buffer in cases where no binding is observed. Subsequent centrifugation at 100,000xg for 30min removes possible aggregates. For less critical assays the α -actinin working stock may be pre-spun (15.000xg, 10min) or filtered (0.2 μ m).

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, α -actinin is kept on ice and will be stable for 2 weeks.

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