

DATASHEET

α -Actinin

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

Quantity: 1×1.0mg
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 by Biuret method. 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 1.0ml 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. In case the quantity is not used at once, aliquots can be stored in 50% glycerol at -20°C.

HYPERMOL EK WARRANTS THAT ITS PRODUCT ARE CONFORM TO THE INFORMATION CONTAINED IN THIS PUBLICATION. THE PURCHASERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT(S) FOR THEIR PARTICULAR USE. ADDITIONAL TERMS AND CONDITIONS MAY APPLY (SEE REVERSE SIDE OF THE INVOICE). HYPERMOL BRANDS ARE SOLD EXCLUSIVELY BY HYPERMOL EK, GERMANY AND AUTHORIZED DISTRIBUTORS.

1 of 1

For product inquiries please contact:

cusserv@hypermol.com
Fon: +49 (0)521 9876228
Fax: +49 (0)521 9876231
www.hypermol.com