

DATASHEET

Talin

From smooth muscle (turkey gizzard)
(≥ 92% purity)

Quantity: 100µg
Cat. #: 8314-01

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

Product Description

Talin isolated from turkey smooth muscle has a molecular mass of ~270kD (2541aa). Talin is comprised of a 220kD rod - containing e.g. actin, vinculin, integrin binding sites - and an N-terminal 47kD head characterized by a FERM domain. The actin-binding multiligand protein talin furthermore interacts e.g. with phospholipids and contains phosphorylation sites.

The protein concentration was determined by the Biuret method. Talin (100µg) is supplied as lyophilized powder containing 0.1M KCl, 10mM imidazole pH 7.4, 0.5mM DTT, 0.5mM EDTA and 0.6% disaccharides, when reconstituted with 100µl H₂O.

Product Handling

Preparation of a working stock

Add 100µl of H₂O to the tube containing talin to obtain a working stock of 1mg/ml. Leave the protein to rehydrate for 2min at room temperature and vortex vigorously and leave to rehydrate for 10min, RT. Carefully pipette the solution up and down to dissolve possible remaining aggregates.

Clear the talin solution by subsequent centrifugation at 15,000xg, 5min, +4°C. Optionally the solution may be applied to a gel filtration column or be dialysed, to exchange buffer.

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, talin is kept on ice and will be stable for at least two weeks.

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