

DATASHEET

Vinculin tail

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

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

Quantity: 50 µg
Cat. #: 8327-01

Product Description

Vinculin (116kD, 1066 aa) is an actin-binding multiligand protein, interacting with phospholipids, signaling molecules and cytoskeletal proteins like talin, α -actinin and paxillin. It consists of an N-terminal four domain head connected to the single domain tail by a proline rich linker region. The vinculin head and tail region are capable to reversibly interact, leading to a closed or open conformation.

Vinculin tail (Vt) was obtained by limited proteolytic cleavage using V8 protease (from *Staphylococcus aureus*). V8 cleaves Vinculin in the proline-rich neck region at two sites: aa 837 and aa 878.

The protein concentration was determined by Biuret reagent using vinculin as a reference. Vt supplied as a lyophilized powder contains 0.1M KCl, 10mM imidazole pH 7.5, 0.5mM DTT, 0.1mM EDTA and 0.25% disaccharides when reconstituted to a 1.0 mg/ml solution.

Product Handling

Preparation of a working stock

Add 50µl of H₂O to the tube containing Vt 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. Carefully pipette the solution up and down to dissolve possible remaining aggregates.

Clear the 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, Vt is kept on ice and will be stable for at least two weeks.

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