

DATASHEET

TL40

From smooth muscle gelsolin (porcine)
(>90% purity)

Cat. #: 8305-03
Quantity: 50µg

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

Product Description

TL40 was obtained by thermolysin cleavage of smooth muscle gelsolin. It consists of the N-terminal homologous subdomains S1-S3 (aa 1-361) and is a Ca⁺⁺-independent proteolytic fragment of native gelsolin. TL40 is preferentially used in F-actin fragmentation assays in the presence of EGTA.

The fragmentation activity of TL40 was determined by Ostwald viscometry at 25°C. The specific viscosity of F-actin (1mg/ml) is reduced by ~47% after addition of TL-40 at a molar ratio of 1:100 (TL-40:A) within less than 2min. For this purpose the TL40 stock solution was used as described below containing 1% disaccharides. F-actin (100mM KCl, 10mM Imidazole pH 7.4, 1mM ATP) was mixed with TL-40 and instantly measured within a time course of 0-30min by Ostwald viscometry.

The protein concentration of TL40 was determined by the Biuret method using rabbit skeletal muscle actin as a reference. The purity was determined by scanning densitometry from Coomassie G-250 stained SDS-Gels. Lyophilized TL40 (50µg) contains 20mM imidazole pH 7.2, 50mM KCl, 1.0mM EGTA and 0.1mM DTT and 0.5% disaccharides, when reconstituted with 100µl H₂O to a 0.5mg/ml solution.

Product Handling

Preparation of a working stock

Add 100µl H₂O to the tube with TL40 to obtain a 0.5mg/ml stock solution. Allow the protein to rehydrate for 5min and vortex for 2-5secs at medium speed. Depending on the purpose, the stock solution is now ready-to-use. For critical assays we recommend buffer exchange – by dialysis or other suitable methods - against 20mM imidazole pH 7.2, 50mM KCl, 1.0mM EGTA and 0.1mM DTT.

Product Storage and Stability

Store the product at -70° upon arrival, where it will be stable for at least 6 months. Once dissolved, TL40 is kept on ice and should be used within 5 days. Avoid refreezing.

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