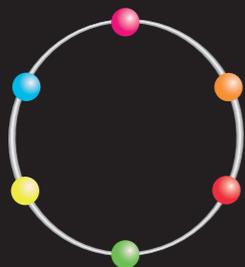


ACTIN-TOOLKITS

Actin-Based Bioassays for
Functional & Structural Ligand Analysis



Analytical Biochemistry

Molecular Cell Biology

Proteomics

Structural Biology

Molecular Medicine

...



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Get your ligand assay started ...

The Concept of Actin-Toolkits

Actin-Toolkits are designed for a whole spectrum of applications ranging from the simple verification of the biological activity of a potential actin binding protein to comprehensive sets of assays characterizing its biochemical or structural properties.

Actin-Toolkits are all-in-one applications for fail-safe handling of actin-based assays, saving your time and maximizing your research efforts.

'Tool a protein'

Actin-Toolkits utilize actin as a tool for the functional & structural analysis of ligands with actin binding sites. Actin-Toolkits are based on established in vitro and in situ methods, and are also convenient to use for experienced researchers who wish to design their own methods.

Since actin binding confirms the correct folding of ligands, Actin-Toolkits are often used to determine the biological activity of recombinant proteins. Furthermore, biochemical comparison of e.g. wildtype vs. mutants provides valuable analytical data to which the enclosed Handbook introduces.

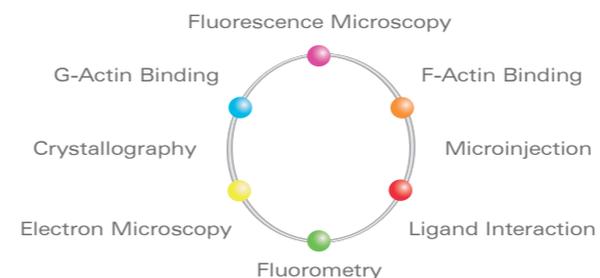
Our guarantee

Hypermol provides pure native or modified actins with high biological activity. We guarantee excellent performance of our products in publishable quality at prices made ready to go.



The Collection of Actin-Toolkits

Actin-Toolkits apply to certain methods analyzing and characterizing ligand-actin interactions. Guided by the Handbook coming with each kit, a stepwise introduction to the use of actin for the chosen application is given. Experienced researchers designing their own experimental setups may choose between the convenient usage of Actin-Toolkits or actins and components from our assortment.



Actin-Toolkits contain mammalian α -actin from rabbit skeletal muscle. Some Actin-Toolkits are also available with bovine α -cardiac actin. Depending on the type of Actin-Toolkit, actins are covalently coupled to e.g. fluorochromes.

Actin-Toolkits provide actin at the experimental stage needed. They are easy to use, saving your time without risking failures. Actin-Toolkits allow to focus on the protein of primary interest to obtain the results required.

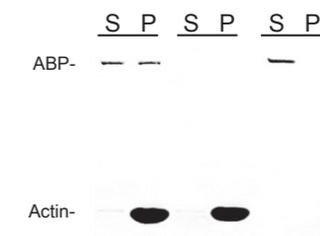


The Features of Actin-Toolkits

User-friendly assays

Actin-Toolkits allow to work experimentally with actin, providing the know-how to perform actin-based assays to characterize the ligands of interest.

Applicable in many fields of research they are used to identify and analyze ligands with active or cryptic actin binding sites.



Spin-down assay of an 110kDa actin binding protein (ABP) at high speed centrifugation (100.000xg, 1h). SDS-PAGE (15% PAA) analysis shows binding of the ABP to F-actin as both proteins colocalize in the pellet (P). In the absence of F-actin, the ABP remains in the supernatant (S).

Fail-safe handling

The handling of actin requires certain precautions regarding the experimental conditions, like the presence of nucleotides or the type and concentration of ions. Actin-Toolkits eliminate the risk of denaturing actin by experimental conditions leading to artefactual results.

Time-saving assays

Actin-Toolkits are ready-to-use as they contain all components to either perform the assays instantly or after a few simple steps of preparation.

Actin-Toolkits support you to get your ligand assay started.