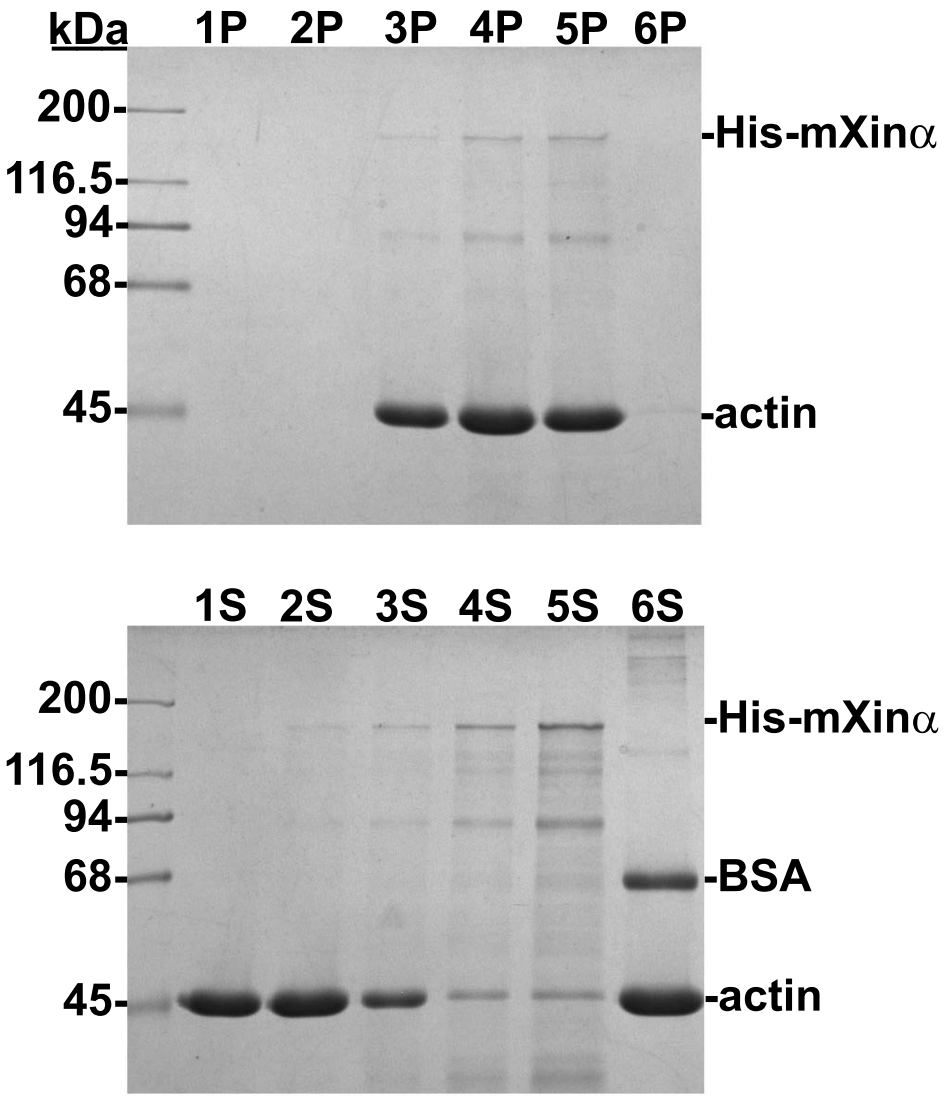
Supplemental Fig. 1. SDS-PAGE analysis of low speed actin cosedimentation with His-mXinα. The actin binding assay was performed with increasing amounts of His-mXinα as described under Fig. 4 legend. No detectable actin was pelleted from the tubes containing actin alone (lane 1P), actin plus 2.5 μg His-mXinα (lane 2P) or actin plus bovine serum albumin (BSA) (lane 6P). His-mXinα at 10 μg (lane 3P), 25 μg (4P) and 50 μg (5P) aggregated actin and can be co-pelleted down with actin by low speed centrifugation. Consistent with the result described in Fig. 4, the reaction between His-mXinα and actin reached saturation when 25 μg His-mXinα was mixed with actin (4P and 5P).

Supplemental Fig. 2. Characterization of actin bundles formed by His-mXinα at different molar ratio of His-mXinα to actin. His-mXinα at different concentration was mixed with actin (2.4 μM) and then the samples were processed to negative staining and electron microscopy. The molar ratio of His-mXinα to actin in (A) equals to 2:1, (B) 1:25, (C) 1:100 and (D) 1:200. At the ratio 1:200, no bundles were found but some filaments were tightly associated, as marked by the arrow (D). Bar=100 nm.

Supplemental Fig. 1



Supplemental Fig. 2