

Product datasheet for **TP725330**

MYO10 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Unconventional myosin-X(C-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Q901-A1047
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 500mM PBS, 300mM NaCl, 10%Glycerol, pH7.4
Note:	Recombinant Human Unconventional myosin-X(C-His) is produced with our E. coli expression system. The target protein is expressed with sequence (Q901-A1047) of Human MYO10 fused with a His tag at the C-terminus
Storage:	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt.Store at $\leq -70^{\circ}\text{C}$, stable for 3 months under sterile conditions after opening.Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	4651
UniProt ID:	Q9HD67
Synonyms:	MYO10, Myosin X, MyoX, Unconventional Myosin-10
Summary:	Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. MYO10 binds to actin filaments and actin bundles and functions as a plus end-directed motor. Moves with higher velocity and takes larger steps on actin bundles than on single actin filaments. The tail domain binds to membranous compartments containing phosphatidylinositol 3,4,5-trisphosphate or integrins, and mediates cargo transport along actin filaments. Regulates cell shape, cell spreading and cell adhesion. Stimulates the formation and elongation of filopodia. In hippocampal neurons it induces the formation of dendritic filopodia by trafficking the actin-remodeling protein VASP to the tips of filopodia, where it promotes actin elongation.
Protein Pathways:	Fc gamma R-mediated phagocytosis



[View online »](#)